Fish types deposited in the Department of Zoology, The University Museum, The University of Tokyo – Part 3: Clupeiformes, Notacanthiformes, Argentiniformes, Stomiiformes, Cypriniformes, Aulopiformes, Gadiformes, and Ophidiiformes.

東京大学総合研究博物館動物部門収蔵の魚類タイプ標本ー第 3 部：ニシン目、ソコギス目、ニギス目、ワニトカゲギス目、コイ目、ヒメ目、タラ目、アシロ目

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Abstract

The current status of type specimens of Clupeiformes, Notacanthiformes, Argentiniformes, Stomiiformes, Cypriniformes, Aulopiformes, Gadiformes, and Ophidiiformes in the ZUMT collection were investigated with recourse to original descriptions, information tags on specimens, and/or the ZUMT specimen ledger. Of the 29 holotypes, 5 syntypes, 1 lectotype, 44 paratypes and 3 paralectotypes purported to be in the collection and applicable to 41 species in 18 families, only 24 holotypes, 4 syntypes, 1 lectotype, 42 paratypes and 3 paralectotypes have been located to date.

Introduction

The current designation and status of type specimens in the fish collection, preserved in the Department of Zoology, The University Museum, The University of Tokyo (ZUMT) collection is now under review. The present list is a summary of type specimens of Clupeiformes, Notacanthiformes, Argentiniformes, Stomiiformes, Cypriniformes, Aulopiformes, Gadiformes, and Ophidiiformes currently held.

本研究では、ZUMT コレクションに収蔵されるタイプ標本の現状について整理するとともに、タイプ指定に関する議論もおこなった。本リストは、ZUMT に含まれるタイプ標本のうちニシン目、ソコギス目、ニギス目、ワニトカゲギス目、コイ目、ヒメ目、タラ目、アシロ目の魚類についてまとめたものである。

Materials and Methods

The “available” type specimens of Clupeiformes, Notacanthiformes, Argentiniformes, Stomiiformes, Cypriniformes, Aulopiformes, Gadiformes, and Ophidiiformes in the ZUMT

collection were confirmed by the first author. They are currently stored in Room 407 in the museum building. The ZUMT collection also includes a variety of personal specimens acquired by the late Tokiharu Abe, such being identifiable in the first instance by an underlined number on the specimen tag. Although those specimens were at no time registered into the ZUMT collection, they are treated here as ZUMT ABE XXXX.

The systematic arrangement of families generally follows Nelson (2006), with species arranged in alphabetical order by species name. The present list includes all the available information pertinent to the ZUMT specimens, including that taken from the ZUMT specimen ledger and/or tags on the specimens.

Information from original description: scientific name, publication, Japanese name in the original description.

Current status on types: available or lost.

Information on type specimens: ZUMT catalog number (number of specimens when more than two), field number or previous catalog number if available, sex, preservation status (stuffed or skin only indicated), collection locality, collection date, collector or donator, collection method, typographical error.

Remarks: Authority for determining type status, correction of previously published erroneous information, and newly determined information from specimen registers and tags.

Current status of species: synonyms, current scientific name and standard Japanese name.

Reference: publications cited in remarks or basis for current status. Listed for each species.

第一著者により、ZUMT に所在するニシン目、ソコギス目、ニギス目、ワニトカゲギス目、コイ目、ヒメ目、タラ目、アシロ目魚類のタイプ標本が確認された。本タイプリストにおいて確認と示した標本は博物館の 407 号室に保管されている。ZUMT コレクションには、故阿部宗明の個人標本が混在しており、これらは基本的に標本タグに書かれた番号に下線が付されていることで識別可能である。これら阿部氏の標本は、ZUMT コレクションに登録されていないものの、本リストにおいては ZUMT ABE ○○○○として扱った。

科の体系的な順番は、主に Nelson (2006)に従い、種については学名のアルファベット順に示した。本リストでは、ZUMT 標本に基づき（あるいは基づいたと想定される）記載されたニシン目、ソコギス目、ニギス目、ワニトカゲギス目、コイ目、ヒメ目、タラ目、アシロ目魚類に関する以下の情報を可能な限り示した。また ZUMT 標本台帳や標本のタグから読み取れる情報についても含めた。

原記載の情報：学名、記載された出版物、記載時に与えられた和名。

タイプ標本の確認状況：確認または未確認。

タイプ標本の情報：ZUMT 番号（複数の場合は標本数）、フィールド番号または寄贈前の他機関登録番号、性別、保存の状態（剥製または皮膚のみの場合に記載）、採集場所、採集年月日、採集者または寄贈者、採集方法など。標本台帳から読み取れる新たな情報についても可能な限り記した。

備考：該当標本をタイプと判断した根拠、ZUMT のタイプ標本が誤って引用された情報、本研究で新たに確認された標本台帳やタグに関する情報、入力ミスなどについて必要に応じて記した。

種の現状：シノニム関係および適用されている学名と標準和名。

引用文献：備考または現状の根拠として引用された出版物や報告論文を種ごとに示した。

Type specimens of Clupeiformes, Notacanthiformes, Argentiniformes, Stomiiformes, Cypriniformes, Aulopiformes, Gadiformes, and Ophidiiformes in ZUMT

Based on the original descriptions, tags on the specimens, and the ZUMT specimen ledger, type specimens of 41 species of Clupeiformes, Notacanthiformes, Argentiniformes, Stomiiformes, Cypriniformes, Aulopiformes, Gadiformes, and Ophidiiformes in 18 families, including 29 holotypes, 5 syntypes, 1 lectotype, 44 paratypes, and 3 paralectotypes, were purported to be in the ZUMT collection. 24 holotypes, 4 syntypes, 1 lectotype, 42 paratypes, and 3 paralectotypes, have been confirmed as "available" to date.

原記載、標本のタグおよびZUMT台帳の情報などからZUMTコレクションに所蔵されるニシン目、ソコギス目、ニギス目、ワニトカゲギス目、コイ目、ヒメ目、タラ目、アシロ目魚類標本には18科41種タイプ標本が登録（あるいは未登録）されていることが明らかになった。その内訳はホロタイプ29標本、シンタイプ5標本、レクトタイプ1標本、パラタイプ44標本、パラレクトタイプ3標本である。本研究において、これらのうち現在ZUMTに所在することが確認できたものはホロタイプ24標本、シンタイプ4標本、パラタイプ42標本、パラレクトタイプ3標本である。

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Clupeiformes　ニシン目

Engraulididae　カタクチイワシ科

Thrissina katana Hata, Lavoué & Motomura, 2022　チョセンタレクチ

Original description: Hata, Lavoué and Motomura (2022): 8, figs. 3b, 7–8.

Hata, H., Lavoué S. and Motomura, H. 2022. *Thrissina katana* sp. nov., a new thryssa from the western Pacific Ocean, and redescription of *Thrissina hamiltonii* (Gray, 1835) (Teleostei: Clupeiformes: Engraulidae). Marine Biodiversity, 52 (11): 1–18.

Paratype (available): ZUMT 14968 (1), Tainan, Taiwan, collected by Takeo Aoki.

Current status: Valid as *Thrissina katana* Hata, Lavoué & Motomura, 2022 チョウセンタレクチ

Hata, H., Koeda, K., Aizawa, M., Sakamoto, K. and Ueshima, R. 2022. A list of Clupeiformes (Actinopterygii: Teleostei) specimens deposited in the Department of Zoology, the University Museum, the University of Tokyo. The University Museum, The University of Tokyo Material Reports, 128 (1): 17–58.

Notacanthiformes　ソコギス目
Halosauridae　トカゲギス科
Halosaurus sinensis Abe, 1974

Original description: Abe (1974): 2, pl. I, figs. 1–4.

Abe, T. 1974. Notes on some fishes collected by the fisheries research vessel "Kaiyomaru" in the South China Sea. I. Uo (Japanese Society of Ichthyologists), 22 (1): 1–6.

Holotype (lost): ZUMT 53061, South China Sea (20°25.2’N, 116°07.3’E); 695–720 m depth; 23 May 1971.

Current status: Valid as *Halosaurus sinensis* Abe, 1974

Pais, A., Merella, P., Follesa, M. C. and Motomura, H. 2009. North-eastern record of *Halosaurus ovenii* (Actinopterygii: Notacanthiformes: Halosauridae) in the Mediterranean Sea, with notes on its biology. Acta Ichthyologica et Piscatoria, 39 (1): 33–37.

中坊徹次（編）. 2013. 日本海産魚類検索全種の同定 I–III. 第三版. 東海大学出版会、秦野. 2530 pp. [Nakabo, T. (ed). 2013. Fishes of Japan with pictorial keys to the species I–III, third edition. Tokai University Press, Hadano. 2530 pp. (In Japanese)]

Argentiniformes　ニギス目
Microstomatidae　ギンザケイワシ科
Nansenia robusta Abe, 1976

Original description: Abe (1976): 27, figs. 1–6.

Abe, T. 1976. Notes on some fishes collected by the fisheries research vessel "Kaiyomaru" in the South China Sea. IV. Bulletin of the Biogeographical Society of Japan, 31 (4): 27–31.

Holotype (available): ZUMT 53953, South China Sea (20°25.7'–20°25.2'N, 116°10.5'–116°07.3'E); 695–720 m depth; 23 May 1971.

Current status: Valid as *Nansenia robusta* Abe, 1976

Kawaguchi, K. and Butler, J. L. 1984. Fishes of the genus *Nansenia* (Microstomatidae) with descriptions of seven new species. Contributions in Science (Los Angeles), 352: 1–22.

Alepocephalidae　セキトリイワシ科

Aleposomus watasei Tanaka, 1909

Original description: Tanaka (1909): 14.
Tanaka, S. 1909. Descriptions of one new genus and ten new species of Japanese fishes. Journal of the College of Science. Imperial University, Tokyo, 27 (8): 1–27, pl. 1.

Holotype (available): ZUMT 2147, Okinose, off Misaki (Sagami Sea), Kanagawa Pref., Japan; 700 fathoms depth; Feb. 1908; collected by Kumakichi Aoki.

Paratype (available): ZUMT 2148 (1, female), Okinose, off Misaki (Sagami Sea), Kanagawa Pref., Japan; 700 fathoms depth; Feb. 1908; collected by Kumakichi Aoki. (This specimen is also the holotype of *Rouleina tanakae* Parr, 1951)

Remarks: The paratype ZUMT 2148 is also the holotype of *Rouleina tanakae* Parr, 1951.
パラタイプ ZUMT 2148 は、*Rouleina tanakae* Parr, 1951 のホロタイプでもある。

Current status: Synonym of *Rouleina squamilatera* (Alcock, 1898) セキトリイワシ

岡村　収・北島忠弘（編）. 1984. 沖縄舟状海盆及び周辺海域の魚類 I. 日本水産資源保護協会、東京. 414 pp. [Okamura, O. and Kitajima, T. (eds). 1984. Fishes of the Okinawa Trough and the adjacent water I. Japan Fishery Resources on Conservation Association, Tokyo. 414 pp. (In Japanese and English)]
Okamura, O. and Machida, Y.1986. Additional records of fishes from Kochi Prefecture, Japan. Memoirs of the Faculty of Science, Kochi University (Series D) (Biology), 7: 17–41.
Sazonov, Yu. I. and Williams, A. 2001. A review of the alepocephalid fishes (Argentiniformes, Alepocephalidae) continental slope of Australia. Journal of Ichthyology, 41 (supplement 1): S1–S36. (Published only in English)
中坊徹次（編）. 2013. 日本海産魚類検索全種の同定 I–III. 第三版. 東海大学出版会、秦野. 2530 pp. [Nakabo, T. (ed). 2013. Fishes of Japan with pictorial keys to the species I–III, third edition. Tokai University Press, Hadano. 2530 pp. (In Japanese)]

Leptoderma lubricum Abe, Marumo & Kawaguchi, 1965　ナメライワシ

Original description: Abe, Marumo and Kawaguchi (1965): 69, figs. 1–4.
Abe, T., Marumo, R. and Kawaguchi, K. 1965. Description of a new alepocephalid fish from Suruga Bay. Japanese Journal of Ichthyology, 13 (1–3): 69–72.

Holotype (available): ZUMT 55047 [ex ORIT 642], Suruga Bay, Shizuoka Pref., Japan (34° 52'N, 138°48'E); 0–1300 m depth; 16 Aug. 1964.

Remarks: Abbreviation of the holotype, ORIT is an abbreviation for Ocean Research Institute, University of Tokyo. The holotype was transferred to the ZUMT collection and registered as ZUMT 55046.

ホロタイプの標本略号 ORIT は Ocean Research Institute, University of Tokyo の略号。ZUMT に移管され、ZUMT 55046 に登録された。

Current status: Valid as *Leptoderma lubricum* Abe, Marumo & Kawaguchi, 1965 ナメライワシ

Shinohara, G., Sato, T., Aonuma, Y., Horikawa, H., Matsuura, K., Nakabo T. and Sato, K. 2005. Annotated checklist of deep-sea fishes from the waters around the Ryukyu Islands, Japan. Deep-sea fauna and pollutants in the Nansei Islands. Monographs of the National Science Museum Tokyo, 29: 385–452.

中坊徹次（編）. 2013. 日本海産魚類検索全種の同定 I–III. 第三版. 東海大学出版会、秦野. 2530 pp. [Nakabo, T. (ed). 2013. Fishes of Japan with pictorial keys to the species I–III, third edition. Tokai University Press, Hadano. 2530 pp. (In Japanese)]

Angulo, A., Baldwin, C. C. and Robertson, D. R. 2016. A new species of *Leptoderma* Vaillant, 1886 (Osmeriformes: Alepocephalidae) from the Pacific coast of Central America. Zootaxa, 4066 (4): 493–500.

Rouleina tanakae Parr, 1951

Original description: Parr (1951): 14.

Parr, A. E. 1951. Preliminary revision of the Alepocephalidae, with the introduction of a new family, Searsidae. American Museum Novitates, 1531: 1–21.

Holotype (available): ZUMT 2148 (1, female), Okinose, off Misaki (Sagami Sea), Kanagawa Pref., Japan; 700 fathoms depth; Feb. 1908; collected by Kumakichi Aoki. (This specimen is also a paratype of *Aleposomus watasei* Tanaka, 1909)

Remarks: The holotype ZUMT 2148 is also a paratype of *Aleposomus watasei* Tanaka, 1909.

ホロタイプ ZUMT 2148 は, *Aleposomus watasei* Tanaka, 1909 のパラタイプでもある。

Current status: Valid as *Rouleina guentheri* (Alcock, 1892) タナカセキトリイワシ

Uyeno T. and Kishida, S. 1977. The second specimen of the alepocephalid fish, *Rouleina tanakae,* collected of Kyushu, Japan. Japanese Journal of Ichthyology, 24 (2): 141–143.

岡村　収・北島忠弘（編）. 1984. 沖縄舟状海盆及び周辺海域の魚類 I. 日本水産資源保護協会，東京. 414 pp. [Okamura, O. and Kitajima, T. (eds). 1984. Fishes of the Okinawa Trough and the adjacent water I. Japan Fishery Resources on Conservation Association, Tokyo. 414 pp. (In Japanese and English)]

Okamura, O. and Machida, Y. 1986. Additional records of fishes from Kochi Prefecture, Japan. Memoirs of the Faculty of Science, Kochi University (Ser. D) (Biology), 7: 17–41.

Sazonov, Yu. I. and Williams, A. 2001. A review of the alepocephalid fishes (Argentiniformes, Alepocephalidae) continental slope of Australia. Journal of Ichthyology, 41 (suppl. 1): S1–S36. [Published only in English]
中坊徹次（編）. 2013. 日本海産魚類検索全種の同定 I–III. 第三版. 東海大学出版会、秦野. 2530 pp. [Nakabo, T. (ed). 2013. Fishes of Japan with pictorial keys to the species I–III, third edition. Tokai University Press, Hadano. 2530 pp. (In Japanese)]

Platytroctidae　ハナメイワシ科

Sagamichthys abei Parr, 1953

Original description: Parr (1953): 6, fig. 1.
Parr, A. E. 1953. A new genus of Searsidae from Japan. American Museum Novitates, 1628: 1–7.

Holotype (available): ZUMT 47820, Yodomi, Sagami Bay, Japan; 22 Apr. 1909; donated by A. Owston.

Remarks: Tanaka (1910) reported *Bathytroctes rostratus* Günther, 1878 on the basis of ZUMT 47820 with suggesting a new Japanese name “Haname-iwashi”.
田中(1910)は、ZUMT47820 に基づき *Bathytroctes rostratus* Günther, 1878 を報告し、和名ハナメイワシを提唱した。

Current status: Valid as *Sagamichthys abei* Parr, 1953 ハナメイワシ
田中茂穂. 1910. 二種の深海魚に就いて. 動物学雑誌, 22 (258): 251–256. [Tanaka, S. 1910. On two species of deep-sea fishes. Zoological Magazine Tokyo, 22 (258): 251–256. (In Japanese)]
藤田惣吉・西野耕一郎. 1964. 宮古沖より採集されたハナメイワシ *Sagamichthys abei* について. 魚類学雑誌、12(1–2): 7–9. [Fujita, S. and Nishino, K. 1964. On *Sagamichthys abei* collected off Miyako, Iwate Pref., Japan. Japanese Journal of Ichthyology, 12(1–2): 7–9. (In Japanese)]
Matsui, T. and Rosenblatt, R. H. 1987. Review of the deep-sea fish family Platytroctidae (Pisces: Salmoniformes). Bulletin of the Scripps Institution of Oceanography of the University of California, 26: vii + 1–159.
Matsui, T. 1991. Description of young of the mesopelagic platytroctids *Holtbyrnia latifrons* and *Sagamichthys abei* (Pisces, Alepocephaloidea) from the northeastern Pacific Ocean. Fishery Bulletin, 89 (2): 209–219.
中坊徹次（編）. 2013. 日本海産魚類検索全種の同定 I–III. 第三版. 東海大学出版会、秦野. 2530 pp. [Nakabo, T. (ed). 2013. Fishes of Japan with pictorial keys to the species I–III, third edition. Tokai University Press, Hadano. 2530 pp. (In Japanese)]

Stomiiformes　ワニトカゲギス目
Sternoptychidae　ムネエソ科
Ichthyococcus elongatus Imai, 1941　シンジュエソ

Original description: Imai (1941): 234, fig. 1.
Imai, S. 1941. Seven new deep-sea fishes obtained in Sagami Sea and Suruga Bay. Japanese Journal of Zoology, 9 (2): 233–250.

Holotype (available): ZUMT 55033, Sagami Bay, Shizuoka Pref., Japan (35°09'N, 139°24'E); 26 July 1940; collected with 9 m otter trawl with 1200 m wire, intermediate haul.

Remarks: The original description was based on only one specimen. This specimen was found in a fish specimen transferred from the Mitsui Institute for Marine Biology to ZUMT, and was a specimen that matched the original figure (fig. 1) and body size. This specimen is a holotype and was enrolled in the ZUMT 55033 of the ZUMT collection (ICZN Art. 73.1.1).
　原記載では、1 標本のみに基づいて記載された。この標本は、三井海洋生物学研究所から ZUMT に移管された魚類標本から発見され、原記載の図（fig. 1）や体のサイズに一致する標本であった。この標本はホロタイプであり、ZUMT コレクションの ZUMT 55033 に登録された(ICZN Art. 73.1.1)。

Current status: Valid as *Ichthyococcus elongatus* Imai, 1941　シンジュエソ
Mukhacheva, V. A. 1980. A review of the genus *Ichthyococcus* Bonaparte (Photichthyidae). Voprosy Ikhtiologii, 20 (6): 771–786. [In Russian. English translation published in Journal of Ichthyology, 20 (6), 1981:1–14.]
岡村　収・尼岡邦夫・三谷文夫（編）．1982．九州－パラオ海嶺ならびに土佐湾の魚類．日本水産資源保護協会，東京．436 pp. [Okamura, O., Amaoka, K. and Mitani, F. (eds). 1982. Fishes of the Kyushu-Palau Ridge and Tosa Bay. The intensive research of unexploited fishery resources on continental slopes. Japan Fisheries Resource Conservation Association, Tokyo. 435 pp. (In Japanese and English)]
益田　一・尼岡邦夫・荒賀忠一・上野輝彌・吉野哲夫（編）．1984．日本産魚類大図鑑．東海大学出版会，東京．xx + 448 pp., 370 pls. [Masuda, H., Amaoka, K. Araga, C., Ueno, T. and Yoshino, T. (eds). 1984. The Fishes of the Japanese Archipelago. Tokai University Press, Tokyo. xx + 448 pp., 370 pls.]
中坊徹次（編）．2013．日本海産魚類検索全種の同定 I–III．第三版．東海大学出版会、秦野．2530 pp. [Nakabo, T. (ed). 2013. Fishes of Japan with pictorial keys to the species I–III, third edition. Tokai University Press, Hadano. 2530 pp. (In Japanese)]

Astronesthidae　トカゲハダカ科
Diplolychnus pacificus Imai, 1941　フタツボシエソ

Original description: Imai (1941): 235, figs. 2–3.
Imai, S. 1941. Seven new deep-sea fishes obtained in Sagami Sea and Suruga Bay. Japanese Journal of Zoology, 9 (2): 233–250.

Holotype (available): ZUMT 55038, Suruga Bay, Shizuoka Pref., Japan (34°47–54'N, 138°38–39'E); 20 Oct. 1940; collected with 4 m beam trawl with 1500 m wire.

Paratypes (available): ZUMT 55039, ZUMT 55040 (2), Suruga Bay, Shizuoka Pref., Japan (34°47–54'N, 138°38–39'E); 20 Oct. 1940; collected with 4 m beam trawl with 1500 m wire.

Paratypes (available): ZUMT 55041, ZUMT 55042, ZUMT 55043 (3), Suruga Bay, Shizuoka Pref., Japan (35°04'N, 138°43'E–34°55'N, 139°24.5'E); 863–1000 m depth; 27 Sept. 1940; collected with 4 m beam trawl with 1400 m wire.

Paratypes (available): ZUMT 55044, ZUMT 55045 (2), Sagami Bay, Shizuoka Pref., Japan (35°02'N, 139°15.5'E); 17 Jan. 1941; collected with 4 m beam trawl with 1800 m wire.

Remarks: The original description was based on eight specimens including holotypes. These type specimens were found in fish specimens transferred from the Mitsui Marine Biology Research Institute to ZUMT. The holotype is specified by body size and the original figure (figs. 2–4). The only specimen that matched it was registered in ZUMT 55038 in the ZUMT collection. The other seven individuals were also paratypes and were registered in ZUMT 55039 – ZMT 55045 (ICZN Art. 72.4.5).

原記載は，ホロタイプを含む 8 標本に基づいて記載された。これらの標本は、三井海洋生物学研究所から ZUMT に移管された魚類標本から発見された。ホロタイプは、体サイズと原記載の図(figs. 2–4)によって原指定されている。それに一致した唯一の標本を ZUMT コレクションの ZUMT 55038 に登録した。その他の 7 個体もパラタイプであり、ZUMT 55039– ZMT 55045 に登録した(ICZN Art. 72.4.5)。

Current status: Valid as *Borostomias pacificus* (Imai, 1941) フタツボシエソ

Gibbs, R. H., Jr. 1964. Family Astronesthidae. pp. 311–350. In: Bigelow, H. B., Breder, C. M., Cohen, D. M., Mead, G. W., Merriman, D., Olsen, Y. H., Schroeder, W. C., Schultz, L. P. and Tee-Van, J. (eds). Fishes of the Western North Atlantic. Vol. 1. Part 4. Memoir of the Sears Foundation for Marine Research, Yale University, New Haven.

岡村　収・北島忠弘（編）. 1984. 沖縄舟状海盆及び周辺海域の魚類 I. 日本水産資源保護協会，東京. 414 pp. [Okamura, O. and Kitajima, T. (eds) 1984. Fishes of the Okinawa Trough and the adjacent water I. Japan Fishery Resources on Conservation Association, Tokyo. 414 pp. (In Japanese and English)]

Okamura, O. and Machida, Y. 1986. Additional records of fishes from Kochi Prefecture, Japan. Memoirs of the Faculty of Science, Kochi University (Series D) (Biology), 7: 17–41.

中坊徹次（編）. 2013. 日本海産魚類検索全種の同定 I–III. 第三版. 東海大学出版会、秦野. 2530 pp. [Nakabo, T. (ed). 2013. Fishes of Japan with pictorial keys to the species I–III, third edition. Tokai University Press, Hadano. 2530 pp. (In Japanese)]

Melanostomiidae　ホテイエソ科

Leptostomias multifilis Imai, 1941　ヤリホシエソ

Original description: Imai (1941): 241, figs. 8–9.

Imai, S. 1941. Seven new deep-sea fishes obtained in Sagami Sea and Suruga Bay. Japanese Journal of Zoology, 9 (2): 233–250.

Holotype (available): ZUMT 55035, Suruga Bay, Shizuoka Pref., Japan (34°47–54'N, 138°38'E–139°24'E); 20 Oct. 1940; collected with 4 m beam trawl with 1500 m wire.
Paratype (available): ZUMT 55036 (1), same as holotype.

Remarks: The types were discovered in a fish specimen transferred from the Mitsui Institute of Marine Biology to ZUMT. The original description was based on two specimens, holotype and paratype. The holotype is originally specified by the figure (figs. 8 & 9) described in the original and the body size. The only specimen with the same body size was registered as a holotype in the ZUMT 55035 of the ZUMT collection. One paratype was confirmed, and it was registered in ZUMT 55036.

この種はホロタイプとパラタイプ 2 標本、合わせて 3 標本に基づいて記載されている。三井海洋生物学研究所から ZUMT に移管された魚類標本の中から 2 個体が発見された。確認できた標本の 1 つは体サイズが原記載の図(figs. 8 & 9)に一致しているホロタイプである(ICZN Art. 73.1.1)。このホロタイプを ZUMT コレクションの ZUMT 55035 に登録した。残った標本はパラタイプの 1 個体である(ICZN Art. 72.4.5)。そのパラタイプは ZUMT 55036 に登録された。

Current status: Valid as *Leptostomias multifilis* Imai, 1941 ヤリホシエソ
Morrow, J. E., Jr. and Gibbs, R. H., Jr. 1964. Family Melanostomiatidae. pp. 351–511. In: Bigelow, H. B., Breder, C. M., Cohen, D. M., Mead, G. W., Merriman, D., Olsen, Y. H., Schroeder, W. C., Schultz, L. P. and Tee-Van, J. (eds). Fishes of the Western North Atlantic. Vol. 1. Part 4. Memoir of the Sears Foundation for Marine Research, Yale University, New Haven.
中坊徹次（編）. 2013. 日本海産魚類検索全種の同定 I–III. 第三版. 東海大学出版会、秦野. 2530 pp. [Nakabo, T. (ed). 2013. Fishes of Japan with pictorial keys to the species I–III, third edition. Tokai University Press, Hadano. 2530 pp. (In Japanese)]

Leptostomias robustus Imai, 1941　フデホシエソ

Original description: Imai (1941): 243, figs. 10 & 11.
Imai, S. 1941. Seven new deep-sea fishes obtained in Sagami Sea and Suruga Bay. Japanese Journal of Zoology 9 (2): 233–250.

Holotype (available): ZUMT 55037, Suruga Bay, Shizuoka Pref., Japan; 17 Nov. 1938; collected by C/V Dainichi-Maru at Heda.

Remarks: It was found in fish specimens transferred from Mitsui Marine Biology Research Institute to ZUMT. The original description contains only one specimen. The specimen was found in good agreement with body size and the original figure (figs 10 & 11). This specimen is a holotype and was registered in ZUMT 55037 of the ZUMT collection (ICZN Art. 73.1.1).

三井海洋生物学研究所から ZUMT に移管された魚類標本の中から発見された。原記載には 1 標本のみで記載されている。発見された標本は、体サイズと原記載の図(figs. 10 & 11)によく一致した。この標本はホロタイプであり、ZUMT コレクションの ZUMT 55037 に登録された(ICZN Art. 73.1.1)。

Current status: Valid as *Leptostomias robustus* Imai, 1941 フデホシエソ

Morrow, J. E., Jr. and Gibbs, R. H., Jr. 1964. Family Melanostomiatidae. pp. 351–511. In: Bigelow, H. B., Breder, C. M., Cohen, D. M., Mead, G. W., Merriman, D., Olsen, Y. H., Schroeder, W. C., Schultz, L. P. and Tee-Van, J. (eds). Fishes of the Western North Atlantic. Vol. 1. Part 4. Memoir of the Sears Foundation for Marine Research, Yale University, New Haven.

岡村　収・北島忠弘（編）．1984．沖縄舟状海盆及び周辺海域の魚類 I．日本水産資源保護協会，東京．414 pp. [Okamura, O. and Kitajima, T. (eds) 1984. Fishes of the Okinawa Trough and the adjacent water I. Japan Fishery Resources on Conservation Association, Tokyo. 414 pp. (In Japanese and English)]

Okamura, O. and Machida, Y. 1986. Additional records of fishes from Kochi Prefecture, Japan. Memoirs of the Faculty of Science, Kochi University (Series D) (Biology), 7: 17–41.

中坊徹次（編）．2013．日本海産魚類検索全種の同定 I–III．第三版．東海大学出版会、秦野．2530 pp. [Nakabo, T. (ed). 2013. Fishes of Japan with pictorial keys to the species I–III, third edition. Tokai University Press, Hadano. 2530 pp. (In Japanese)]

Opostomias mitsuii Imai, 1941　ミツイホシエソ

Original description: Imai (1941): 239, figs. 5–7.

Imai, S. 1941. Seven new deep-sea fishes obtained in Sagami Sea and Suruga Bay. Japanese Journal of Zoology, 9 (2): 233–250.

Holotype (available): ZUMT 55034, off Manazuru, Sagami Bay, Kanagawa Pref., Japan; 18, June 1939; collected with 1.5 m beam trawl with 1500 m wire.

Remarks: This specimen was found in a fish specimen transferred from the Mitsui Marine Biology Research Institute to ZUMT. The original description contains only one specimen. The specimens found were in good agreement with body size and the original figure (figs. 5–7). This specimen is a holotype and was registered in ZUMT 55034 of the ZUMT collection (ICZN Art. 73.1.1).

この標本は三井海洋生物学研究所から ZUMT に移管された魚類標本の中から発見された。原記載には 1 標本のみで記載されている。発見された標本は、体サイズと原記載の図(figs. 5–7)に良く一致した。この標本がホロタイプであり、ZUMT コレクションの ZUMT 55034 に登録された(ICZN Art. 73.1.1)

Current status: Valid as *Opostomias mitsuii* Imai, 1941 ミツイホシエソ

Morrow, J. E., Jr. and Gibbs, R. H., Jr. 1964. Family Melanostomiatidae. pp. 351–511. In: Bigelow,

H. B., Breder, C. M., Cohen, D. M., Mead, G. W., Merriman, D., Olsen, Y. H., Schroeder, W. C., Schultz, L. P. and Tee-Van, J. (eds). Fishes of the Western North Atlantic. Vol. 1. Part 4. Memoir of the Sears Foundation for Marine Research, Yale University, New Haven.
尼岡邦夫・仲谷一宏・新谷久男・安井達夫（編）．1983．東北海域・北海道オホーツク海域の魚類．日本水産資源保護協会，東京．327 pp. [Amaoka, K., Nakaya, K., Araya, H. and Yasui, T. (eds). 1983. Fishes from the north-eastern Sea of Japan and the Okhotsk Sea off Hokkaido. Japan Fishery Resources on Conservation Association, Tokyo. 327 pp. (In Japanese and English)]
Okamura, O. and Machida, Y. 1986. Additional records of fishes from Kochi Prefecture, Japan. Memoirs of the Faculty of Science, Kochi University (Series D) (Biology), 7: 17–41.
尼岡邦夫・仲谷一宏・矢部　衛．2011．北海道の全魚類図鑑．北海道新聞社，札幌．482 pp. [Amaoka, K., Nakaya, K. and Yabe, M. 1995. Fishes of Hokkaido. The Hokkaido Shimbun Press, Sapporo. 482 pp. (In Japanese)]
中坊徹次（編）．2013．日本海産魚類検索全種の同定 I–III．第三版．東海大学出版会、秦野．2530 pp. [Nakabo, T. (ed). 2013. Fishes of Japan with pictorial keys to the species I–III, third edition. Tokai University Press, Hadano. 2530 pp. (In Japanese)]

Cypriniformes　コイ目
Cyprinidae　コイ科
Acheilognathus shimazui Tanaka, 1908　アブラボテ

Original description: Tanaka (1908): 234, fig. 1.
田中茂穂．1908．琵琶湖産魚類．動物学雑誌，20 (237): 233–237. [Tanaka, S. 1908. Fish fauna of Lake Biwa. Zoological Magazine Tokyo, 20 (237): 233–237. (In Japanese)]

Syntypes (lost): ZUMT 1833 (2), Tokiwa Village, Awata County, Shiga Pref., Japan; Dec. 1906; donated by Kyoto Shimazu Co., Ltd.（滋賀県栗太郡常盤村［滋賀県草津市］、明治 39 年 12 月採集、京都島津製作所寄贈）

Remarks: This species was published in two papers, Japanese and English, in 1908. The publication date is July 15, 1908 for the Japanese version and December 15, 1908 for the English version (National Diet Library), and the Japanese version is the original description (ICZN Art. 23.1). In the original description of the Japanese version, two samples were used in the description. These two samples of ZUMT 1833 are also used as the type specimens in the description of the English version. Two specimens were registered in ZUMT 1833 in the ZUMT specimen ledger. These are considered as the syntypes. However, these specimens are lost.
　この種は、1908 年に和文と英文の 2 つの論文に掲載されている。発行日（国立国会図書館）は和文版が 1908 年 7 月 15 日，英文版では 1908 年 12 月 15 日であり、和文版が原記載となる(ICZN Art. 23.1)。原記載の和文版は記載に 2 標本が使われていた。英文版の記載にもタイプとし ZUMT 1833 の 2 標本を使用している。ZUMT 標本台帳には 2 標本が ZUMT 1833 に登録されていた。これらはシンタイプである。ただし、これらの標本は紛失している。

Current status: Synonym of *Tanakia limbata* (Temminck & Schlegel, 1846) アブラボテ

Tanaka, S. 1908. Fish fauna of Lake Biwa, with description of one new species and a list of all the fish species hitherto known from that locality. Annotationes Zoologicae Japonenses, 7 (1): 1–15.

中村守純．1969．日本のコイ科魚類．資源科学シリーズ 4，資源科学研究所，東京．viii + iv + 455 pp., 149 pls. [Nakamura, M. 1969. Cyprinid fishes of Japan. Contributions from the Special Publication of the Research Institution for Natural Resources, No. 4, Research Institute for Natural Resources, Tokyo. viii + iv + 455 pp., 149 pls. (In Japanese)]

Arai, R. and Y. Akai. 1988. *Acheilognathus melanogaster*, a senior synonym of *A. moriokae,* with a revision of the genera of the subfamily Acheilognathinae (Cypriniformes, Cyprinidae). Bulletin of the National Science Museum, Zoology (Series A), 14 (4): 199–213.

中坊徹次（編）．2013．日本海産魚類検索全種の同定 I–III．第三版．東海大学出版会、秦野．2530 pp. [Nakabo, T. (ed). 2013. Fishes of Japan with pictorial keys to the species I–III, third edition. Tokai University Press, Hadano. 2530 pp. (In Japanese)]

Acheilognathus tabira erythropterus Arai, Fujikawa & Nagata, 2007　アカヒレタビラ

Original description: Arai et al. (2007): 11, figs. 3B–D, 8.

Arai, R., Fujikawa, H. and Nagata, Y. 2007. Four new subspecies of *Acheilognathus* Bitterlings (Cyprinidae: Acheilognathidae) from Japan. Bulletin of the National Museum of Nature and Science (Series A) Supplement, 1: 1–28.

Paratypes (available): ZUMT 61512 (2), Nasu Town, Nakagawa River system, Tochigi Pref., Japan; 28 May 2005.

Current status: Valid as *Acheilognathus tabira erythropterus* Arai, Fujikawa & Nagata, 2007 アカヒレタビラ

熊谷正裕･萩原富司．2013．青森県で確認されたアカヒレタビラ *Acheilognathus tabira erythropterus* とシロヒレタビラ *A. t. tabira*．伊豆沼･内沼研究報告, 7: 17–22. [Kumagai, M. and Hagiwara, T. 2013. *Acheilognathus tabira erythropterus* and *A. t. tabira* collected from Aomori Prefecture, Japan. Izunuma–Uchinuma Wetland Researches, 7: 17–22. (In Japanese with English abstract)]

中坊徹次（編）．2013．日本海産魚類検索全種の同定 I–III．第三版．東海大学出版会、秦野．2530 pp. [Nakabo, T. (ed). 2013. Fishes of Japan with pictorial keys to the species I–III, third edition. Tokai University Press, Hadano. 2530 pp. (In Japanese)]

Acheilognathus tabira jordani Arai, Fujikawa & Nagata, 2007 ミナミアカヒレタビラ

Original description: Arai et al. (2007): 17, figs. 4A–B, 5C–E, 10.

Arai, R., Fujikawa, H. and Nagata, Y. 2007. Four new subspecies of *Acheilognathus* Bitterlings

(Cyprinidae: Acheilognathidae) from Japan. Bulletin of the National Museum of Nature and Science (Series A) Supplement, 1: 1–28.

Paratypes (available): ZUMT 61511 (12), Ohda, Oharagawa River, Shimane Pref., Japan; 4 July 2003.

Current status: Valid as *Acheilognathus tabira erythropterus* Arai, Fujikawa & Nagata, 2007 ミナミアカヒレタビラ

中坊徹次（編）. 2013. 日本海産魚類検索全種の同定 I–III. 第三版. 東海大学出版会、秦野. 2530 pp. [Nakabo, T. (ed). 2013. Fishes of Japan with pictorial keys to the species I–III, third edition. Tokai University Press, Hadano. 2530 pp. (In Japanese)]

Acheilognathus tabira tohokuensis Arai, Fujikawa & Nagata, 2007 キタノアカヒレタビラ

Original description: Arai et al. (2007): 13, figs. 3A, 5A, B, 9.

Arai, R., Fujikawa, H. and Nagata, Y. 2007. Four new subspecies of *Acheilognathus* Bitterlings (Cyprinidae: Acheilognathidae) from Japan. Bulletin of the National Museum of Nature and Science (Series A) Supplement, 1: 1–28.

Paratype (available): ZUMT 61513 (1), near Teradomari, Niigata Pref., Japan; 21 Oct. 2005.

Current status: Valid as *Acheilognathus tabira jordani* Arai, Fujikawa and Nagata, 2007 キタノアカヒレタビラ

中坊徹次（編）. 2013. 日本海産魚類検索全種の同定 I–III. 第三版. 東海大学出版会、秦野. 2530 pp. [Nakabo, T. (ed). 2013. Fishes of Japan with pictorial keys to the species I–III, third edition. Tokai University Press, Hadano. 2530 pp. (In Japanese)]

Brevigobio kawabatae Tanaka, 1916　カワバタモロコ

Original description: Tanaka (1916): 102.

田中茂穂. 1916. 日本産魚類の二新種. 動物学雑誌, 28 (329): 102–103. [Tanaka, S. 1916. Two new species of Japanese fishes. Zoological Magazine Tokyo, 28 (329): 102–103. (In Japanese)]

Lectotype (available): ZUMT 4339, Lake Biwa, Shiga Pref., Japan; 1914; collected by Jugoro Kawabata.（琵琶湖、滋賀県水産試験場長　川端重五郎採集、大正 3 年）

Paralectotypes (available): ZUMT 59855, ZUMT 59856, ZUMT 59857 (3), same as holotype.

Remarks: There is no holotype designation in the original description. From the ZUMT specimen ledger, there was a specimen ZUMT 4339 that matched the scientific name and collection data. The writing of ZUMT 4339 in the ZUMT specimen ledger says "with type"

and "for illustration", and there are 4 individuals including the type. These specimens are syntypes. The cloth tags tied to the specimens were distinguished from each other by adding a dash to the handwritten registration number 4339. In Tanaka's (1916a) Japanese fish illustration (23: pl. 115, 24: 420–424), ZUMT 4339 is re-described and illustrated as a holotype. The act of designating one of the syntype ZUMT 4339 as the holotype is considered a lectotype designation rather than holotype (ICZN Art. 74.5). The illustrated specimen of Tanaka (1916a) has "type" cloth tag. ZUMT 4339 is the lectotype, and the three other specimens becoming the paralectotypes were registered as ZUMT 59855 to ZUMT 59857 (ICZN Art. 74.5).

In the original description, the collector was "Kingoro Kawabata", in Tanaka (1916b) Figures and descriptions of the fishes of Japan (24: 420–424), "Jugoro Kawabata", and in the ZUMT specimen ledger, "Jugoro Tabata". The name of the director of the Shiga Prefectural Fisheries Experimental Station in 1918 was "Jugoro Kawabata".

原記載にホロタイプの指定がない。ZUMT 標本台帳から学名と収集データに一致した標本 ZUMT 4339 があった。ZUMT 標本台帳の ZUMT 4339 の書き込みには「type あり」と「図説用」とあり、タイプを含む 4 個体がある。これらの標本はシンタイプである。標本に結ばれた布タグには、手書きの登録番号 4339 にダッシュを加筆し互いに区別されていた。田中(1916a)の日本産魚類図説(23: pl. 115, 24: 420–424)では ZUMT 4339 をホロタイプとして再記載し、図示している。シンタイプの ZUMT 4339 の中の 1 個体をホロタイプに指定した行為は、ホロタイプではなくレクトタイプの指定と見なされる(ICZN Art. 74.5)。シンタイプの ZUMT 4339 の中の 1 個体をホロタイプに指定した行為は、ホロタイプではなくレクトタイプの指定と見なされる(ICZN Art. 74.5) 。田中(1916b)の図示標本は、「type」の布タグが付いている。ZUMT 4339 はレクトタイプであり、他の 3 標本のパラレクトタイプは、ZUMT 59855–ZUMT 59857 に登録された(ICZN Art. 74.1.3)。

原記載では採集者は「川端金五郎」、田中（1916b）の 日本産魚類図説(24: 420–424)では「川端重五郎」、ZUMT 標本台帳の記述は「田端重五郎」とあった。大正 3 年の滋賀県水産試験場の場長名は、「川端重五郎」であった。

Current status: Synonym of *Hemigrammocypris neglecta* (Stieler, 1907) カワバタモロコ

田中茂穂. 1916a. 日本産魚類図説, 23: 399–418, pls. 111–115. [Tanaka, S. 1916a. Figures and descriptions of the fishes of Japan including Riukiu Islands, Bonin Islands, Formosa, Kurile Islands, Korea, and Southern Sakhalin. Vol. 23: 399–418, pls. 111–115. (In Japanese and English)]

田中茂穂. 1916b. 日本産魚類図説, 24: 419–440, pls. 116–120. [Tanaka, S. 1916b. Figures and descriptions of the fishes of Japan including Riukiu Islands, Bonin Islands, Formosa, Kurile Islands, Korea, and Southern Sakhalin. Vol. 24: 419–440, pls. 116–120. (In Japanese and English)]

Jordan, D. S. and Hubbs, C. L. 1925. Record of fishes obtained by David Starr Jordan in Japan, 1922. Memoirs of the Carnegie Museum, 10 (2): 93–346, pls. 5–12.

中村守純. 1969. 日本のコイ科魚類. 資源科学シリーズ 4, 資源科学研究所, 東京. viii + iv + 455 pp.,149 pls. [Nakamura, M. 1969. Cyprinid fishes of Japan. Contributions from the Special Publication of the Research Institution for Natural Resources, No. 4. Research Institute for Natural Resources, Tokyo. viii + iv + 455 pp., 149 pls. (In Japanese)]

Zarske, A. 2013. *Barilius neglectus* Stieler, 1907 -- ein senior synonym von *Hemigrammocypris rasborella* Fowler, 1910 (Teleostei: Cypriniformes: Cyrinidae). Vertebrate Zoology, 63 (3): 253–257.
中坊徹次（編）. 2013. 日本海産魚類検索全種の同定 I–III. 第三版. 東海大学出版会、秦野. 2530 pp. [Nakabo, T. (ed). 2013. Fishes of Japan with pictorial keys to the species I–III, third edition. Tokai University Press, Hadano. 2530 pp. (In Japanese)]
Ito, T., Hoshino, K. and Hosoya, K. 2021. Osteology of *Hemigrammocypris neglecta* (Teleostei: Cypriniformes) with comments on its systematic position. Zootaxa, 4995 (1): 147–160.

Erythroculter macrophthalmus Berg, 1934

Original description: Berg (1934): 265, 266.

Berg, L. S. 1934. Notes on *Culter recurviceps* (Rich.) (Cyprinidae). Doklady Akademii Nauk SSSR, 2 (4): 264–266. [In Russian and English]

Holotype (available): ZUMT 18120, Taihoku (Taipei), Taiwan.

Remark: The original description was based on the Culter recurviceps (42: 813–816, pl. 173, fig. 477) published by Tanaka (1928) in the Figures and descriptions of the fishes of Japan. The illustrated specimen ZUMT 18120 is treated as designated and is a holotype (ICZN Art. 73.1.4).

原記載では、田中 (1928)が日本産魚類図説に掲載した *Culter recurviceps* (42: 813–816, pl. 173, fig. 477) に基づいて記載された。図示された標本 ZUMT 18120 を指定したと扱い、ホロタイプである(ICZN Art. 73.1.4)。

Current status: Synonym of *Sinibrama macrops* (Günther, 1868)

田中茂穂. 1928. 日本産魚類図説. 42: 809–830, pls. 172–174. [Tanaka, S. 1928. Figures and descriptions of the fishes of Japan including Riukiu Islands, Bonin Islands, Formosa, Kurile Islands, Korea, and Southern Sakhalin. Vol. 42: 809–830, pls. 172–174. (In Japanese and English)]
Ho, H.-C. and Shao, K.-T. 2011. Annotated checklist and type catalog of fish genera and species described from Taiwan. Zootaxa, 2957: 1–74.
Takeuchi, H. and Hosoya, K. 2011. Osteology of *Ischikauia steenackeri* (Teleostei: Cypriniformes) with comments on its systematic position. Ichthyological Research, 58 (1): 10–18.
Kottelat, M. 2013. The fishes of the inland waters of Southeast Asia: a catalogue and core bibliography of the fishes known to occur in freshwaters, mangroves and estuaries. Raffles Bulletin of Zoology Supplement, 27: 1–663.

Rhodeus albomarginatus Li & Arai, 2014

Original description: Li and Arai (2014): 167, figs. 1–8.

Li, F. and R. Arai. 2014. *Rhodeus albomarginatus*, a new bitterling (Teleostei: Cyprinidae: Acheilognathinae) from China. Zootaxa, 3790 (1): 165–176.

Paratypes (available): ZUMT 61048 (1, male; 45.8 mm SL), ZUMT 61049 (1, female; 38.8 mm SL), Lijiang River, Yangtze River system, Xuling Town, Qimen County, Anhui Province, China; 5 Oct. 2011.

Current status: Valid as *Rhodeus albomarginatus* Li & Arai, 2014

Li, F., Liao, T.-Y., Arai, R. and Zhao, L.-J. 2017. *Sinorhodeus microlepis*, a new genus and species of bitterling from China (Teleostei: Cyprinidae: Acheilognathinae). Zootaxa, 4353 (1): 69–88.

Li, F., Liao, T.-Y., and Arai, R. 2020. Two new species of *Rhodeus* (Teleostei: Cyprinidae: Acheilognathinae) from the River Yangtze, China. Journal of Vertebrate Biology, 69 (1): 1–17.

Rhodeus miobuta Tanaka, 1909

Original description: Tanaka (1909): 12.

Tanaka, S. 1909. Descriptions of one new genus and ten new species of Japanese fishes. Journal of the College of Science. Imperial University, Tokyo, 27 (8): 1–27, pl. 1.

Holotype (available): ZUMT 1860, Kohama, Ohara, Chiba Pref., Japan; 19, Feb. 1908; donated by T. Suzuki.

Paratype (available): ZUMT 2006 (1), same locality as holotype; dated Aug. 1908.

Paratypes (lost): ZUMT 2157 (2), same locality as holotype; dated 29 Feb. 1908.

Remarks: In the original description, ZUMT 1860 was designated as a holotype, and 3 other specimens were used. From the records in the ZUMT specimen ledger, ZUMT 2006 (1) and ZUMT 2157 (2) were specimens that matched the scientific name and collection data. These are paratypes.

原記載は ZUMT 1860 をホロタイプに指定し、他に 3 標本を使用した。ZUMT 標本台帳の記録から学名と収集データに一致する標本 ZUMT 2006(1)と ZUMT 2157(2)があった。これらはパラタイプである。

Current status: Valid as *Pseudorhodeus tanago* (Tanaka, 1909) ミヤコタナゴ

田中茂穂．1911．日本産魚類図説．1: 1–18, pls. 1–5. [Tanaka, S. 1911. Figures and descriptions of the fishes of Japan including Riukiu Islands, Bonin Islands, Formosa, Kurile Islands, Korea, and Southern Sakhalin. Vol. 1: 1–18, pls. 1–5. (In Japanese and English)]

中村守純．1969．日本のコイ科魚類．資源科学シリーズ 4，資源科学研究所，東京．viii + iv + 455 pp.,149 pls. [Nakamura, M. 1969. Cyprinid fishes of Japan. Contributions from the Special Publication of the Research Institution for Natural Resources, No. 4, Research Institute for Natural Resources, Tokyo. viii + iv + 455 pp., 149 pls. (In Japanese)]
Arai, R. and Akai, Y. 1988. Acheilognathus melanogaster, a senior synonym of *A. moriokae*, with a revision of the genera of the subfamily Acheilognathinae (Cypriniformes, Cyprinidae). Bulletin of the National Science Museum, Series A (Zoology), 14 (4): 199–213.
中坊徹次（編）．2013．日本海産魚類検索全種の同定 I–III．第三版．東海大学出版会、秦野．2530 pp. [Nakabo, T. (ed). 2013. Fishes of Japan with pictorial keys to the species I–III, third edition. Tokai University Press, Hadano. 2530 pp. (In Japanese)]
Chang, C.-H., Li, F., Shao, K.-T., Lin, Y.-S., Morosawa, T., Kim, S., Koo, H., Kim, W., Lee, J.-S., He, S., Smith, C., Reichard, M., Miya, M., Sado, T., Uehara, K., Lavoué, S., Chen, W.-J. and Mayden, R. 2014. Phylogenetic relationships of Acheilognathidae (Cypriniformes: Cyprinoidea) as revealed from evidence of both nuclear and mitochondrial gene sequence variation: evidence for necessary taxonomic revision in the family and the identification of cryptic species. Molecular Phylogenetics and Evolution, 81: 182–194.

Rhodeus pseudosericeus Arai, Jeon & Ueda, 2001　ニセヨーロッパタナゴ

Original description: Arai, Jeon and Ueda (2001): 276, figs. 1–6.

Arai, R., Jeon, S.-R. and Ueda, T. 2001. *Rhodeus pseudosericeus* sp. nov., a new bitterling from South Korea (Cyprinidae: Acheilognathinae). Ichthyological Research, 48 (3): 275–282.

Paratypes (available): ZUMT 61146 (4), Huk River, Namhan River system, Gongse-ri, Gaegun-myon, Yangpyong-gun, Gyonggi-do, South Korea; 5 Dec. 1998.
Paratypes (available): ZUMT 61147 (3), Jon River, Namhan River system, Jogok-ri, Hoengsong-up, Hoengsong-gun, Gangwon-do, South Korea; 22 Oct. 1989.
Paratypes (available): ZUMT 61148 (2), Iri River, tributary of Som River, Namhan River system, Okgye-ri, Sowon-myon, Hoengsong-gun, Gangwon-do, South Korea; 16 Oct. 1999.
Paratypes (available): ZUMT 61149, ZUMT 61150, ZUMT 61151 (3), Gumgye River, tributary of Som River, Namhan River system, Hakdam-ri, Gongun-myon, Hoengsong-gun, Gangwon-do, South Korea; 16 Oct. 1999.

Current status: Valid as *Rhodeus pseudosericeus* Arai, Jeon & Ueda, 2001 ニセヨーロッパタナゴ

Li, F. and Arai, R. 2014. *Rhodeus albomarginatus*, a new bitterling (Teleostei: Cyprinidae: Acheilognathinae) from China. Zootaxa, 3790 (1): 165–176.
Li, F., Arai, R. and Liao, T.-Y. 2020. *Rhodeus flaviventris*, a new bitterling (Teleostei: Cyprinidae: Acheilognathinae) from China. Zootaxa, 4790 (2): 329–340.

Rhodeus shitaiensis Li & Arai, 2011

Original description: Li and Arai (2011): 305, figs 1–5, 6a–b, 7.

Li, F. and Arai, R. 2011. *Rhodeus shitaiensis*, a new bitterling from China (Teleostei: Cyprinidae). Ichthyological Exploration of Freshwaters 21 (4): 303–312.

Paratypes (available): ZUMT 61947 (4, male), Qiupu Rive Changjiang River system, Shitai County, Anhui Province, China (30°11'N, 117°30' E); 3 May 2009; collected by F. Li.

Current status: Valid as *Rhodeus shitaiensis* Li & Arai, 2011

Li, F., Arai, R. and Liao, T.-Y. 2020. *Rhodeus flaviventris*, a new bitterling (Teleostei: Cyprinidae: Acheilognathinae) from China. Zootaxa, 4790 (2): 329–340.

Li, F., Liao, T.-Y. and Arai, R. 2020. Two new species of *Rhodeus* (Teleostei: Cyprinidae: Acheilognathinae) from the River Yangtze, China. Journal of Vertebrate Biology, 69 (1): 1–17.

Rhodeus tanago Tanaka, 1909

Original description: Tanaka (1909): 10.

Tanaka, S. 1909. Descriptions of one new genus and ten new species of Japanese fishes. Journal of the College of Science. Imperial University, Tokyo, 27 (8): 1–27, pl. 1.

Holotype (lost): ZUMT 1710, a pond in the Botanical Garden at Tokyo (Koishikawa Botanical Garden), Japan.（植物園［小石川植物園、東京．都文京区白山］）

Paratype (available): ZUMT 2156 (1), same as holotype.

Remarks: In the original description, ZUMT 1710 was designated as the holotype, and one paratype was used. There was a specimen ZUMT 2156 whose holotype and collected data matched from the records in the ZUMT sample ledger. This specimen is the paratype and has two labels, "2156" and "Tokyo Imperial Botanical Garden (Koishikawa Botanical Garden)". The holotype ZUMT 1710 is lost.

原記載は、ZUMT 1710 をホロタイプに指定し、その他にパラタイプ 1 標本を使用した。ZUMT 標本台帳の記録からホロタイプと収集データが一致した標本 ZUMT 2156 があった。この標本は、パラタイプで「2156」と「東京．帝国植物園（小石川植物園)」の 2 つのラベルが付いている。ホロタイプ ZUMT 1710 は紛失している。

Current status: Valid as *Pseudorhodeus tanago* (Tanaka, 1909) ミヤコタナゴ

中村守純．1969．日本のコイ科魚類．資源科学シリーズ 4，資源科学研究所，東京．viii + iv + 455 pp., 149pls. [Nakamura, M. 1969. Cyprinid fishes of Japan. Contributions from the Special Publication of the Research Institution for Natural Resources, No. 4, Research Institute for Natural Resources, Tokyo. viii + iv + 455 pp., 149 pls. (In Japanese)]

Chang, C. -H., Lin, W.-W., Shao, Y.-T., Arai, R., Ishinabe, T., Ueda, T., Matsuda, M., Kubota, H., Wang, F.-Y., Jang-Liaw, N.-H. and Kao, H.-W. 2009. Molecular phylogeny and genetic differentiation of the *Tanakia himantegus* complex (Teleostei: Cyprinidae) in Taiwan and China. Zoological Studies, 48 (6): 823–834.
中坊徹次（編）. 2013. 日本海産魚類検索全種の同定 I–III. 第三版. 東海大学出版会、秦野. 2530 pp. [Nakabo, T. (ed). 2013. Fishes of Japan with pictorial keys to the species I–III, third edition. Tokai University Press, Hadano. 2530 pp. (In Japanese)]
Chang, C.-H., Li, F., Shao, K.-T., Lin, Y.-S., Morosawa, T., Kim, S., Koo, H., Kim, W., Lee, J.-S., He, S., Smith, C., Reichard, M., Miya, M., Sado, T., Uehara, K., Lavoué, S., Chen, W.-J. and Mayden, R. 2014. Phylogenetic relationships of Acheilognathidae (Cypriniformes: Cyprinoidea) as revealed from evidence of both nuclear and mitochondrial gene sequence variation: evidence for necessary taxonomic revision in the family and the identification of cryptic species. Molecular Phylogenetics and Evolution, 81: 182–194.

Aulopiformes　ヒメ目
Aulopidae　ヒメ科
Aulopus damasi Tanaka, 1915　エソダマシ

Original description: Tanaka (1915): 340, pl. 92 (fig. 295).
田中茂穂. 1915. 日本産魚類図説. 19: 319–342, pls. 91–95. [Tanaka, S. 1915. Figures and descriptions of the fishes of Japan including Riukiu Islands, Bonin Islands, Formosa, Kurile Islands, Korea, and Southern Sakhalin. Vol. 19: 319–342, pls. 91–95. (In Japanese and English)]

Holotype (lost): ZUMT 3771, off Prov. Izu (obtained at Tokyo Market) Japan.

Remarks: There is no holotype designation in the original description. ZUMT 3771 is a holotype because it is described only in the illustrated specimen ZUMT 3771 (ICZN Art. 73.1.2). This specimen is lost. Gomon et al. (2013) designated NSMT-P 115220 (National Museum of Nature and Science, Zoology Department, Division of Fishes, Tsukuba, Japan) as the neotype.
　原記載にはホロタイプの指定はない。図示された標本 ZUMT 3771 のみで記載さていているため、ZUMT 3771 はホロタイプである (ICZN Art. 73.1.2)。この標本は紛失している。Gomon et al. (2013) はネオタイプに NSMT-P 115220 (National Museum of Nature and Science, Zoology Department, Division of Fishes, Tsukuba, Japan) を指定した。

Current status: Valid as *Leptaulopus damasi* (Tanaka, 1915)　エソダマシ
岡村　収・北島忠弘（編）. 1984. 沖縄舟状海盆及び周辺海域の魚類 I. 日本水産資源保護協会, 東京. 414 pp. [Okamura, O. and Kitajima, T. (eds). 1984. Fishes of the Okinawa Trough and the adjacent water I. Japan Fishery Resources on Conservation Association, Tokyo. 414 pp. (In Japanese and English)]

山田梅芳・田川　勝・岸田周三・本城康至．1986．東シナ海・黄海のさかな．西海区水産研究所，長崎．xxvi + 502 pp. [Yamada, U., Tagawa, M., Kishida, S., and Honjo, K. 1986. Fishes of the East China Sea and the Yellow Sea. Seikai Regional Fisheries Research Laboratory, Nagasaki. xxvi + 502 pp. (In Japanese)]
畑　晴陵・伊東正英・本村浩之．2012．鹿児島県から得られたヒメ科エソダマシ *Aulopus damasi* の記録. Nature of Kagoshima 38: 9–11. [Hata, H., Itou, M. and Motomura, H. 2012. First record of *Aulopus damasi* (Aulopiformes: Aulopidae) from Kagoshima Prefecture, southern Japan. Nature of Kagoshima 38: 9–11. (In Japanese)]
中坊徹次（編）．2013．日本海産魚類検索全種の同定 I–III．第三版．東海大学出版会、秦野．2530 pp. [Nakabo, T. (ed). 2013. Fishes of Japan with pictorial keys to the species I–III, third edition. Tokai University Press, Hadano. 2530 pp. (In Japanese)]
Gomon, M. F., Struthers, C. D. and Stewart, A. L. 2013. A new genus and two new species of the family Aulopidae (Aulopiformes), commonly referred to as *Aulopus, flagfins,* Sergeant Bakers or *Threadsails*, in Australasian waters. Species Diversity, 18: 141–161.
赤池貴大・前川隆則・本村浩之．2021．標本に基づく魚類 6 種の奄美大島からの初めての記録．Ichthy, Natural History of Fishes of Japan, 6: 41–47. [Aikake, T., Maekawa, T. and Motomura, H. 2021. First specimen–based records of six fish species from Amami–oshima island, Ryukyu Islands, Japan. Ichthy, Natural History of Fishes of Japan, 6: 41–47. (In Japanese with English abstract]]

Synodontidae　エソ科

Saurida isarankurai Shindo & Yamada, 1972

Original description: Shindo and Yamada (1972): 6, fig. 7.

Shindo, S. and Yamada, U. 1972. Descriptions of three new species of the lizardfish genus *Saurida*, with a key to its Indo–Pacific species. UO (Japanese Society of Ichthyologists), 11: 1–13, 12: 1–14.

Holotype (available): ZUMT 52501, Prachambkirikan Province, Gulf of Thailand, Thailand.
Paratypes (available): ZUMT 54347 (1), ZUMT 54348 (1), same as holotype.

Remarks: The original specimen abbreviation ZIUT (Zoological Institute, Faculty of Science, University of Tokyo) is the same as ZUMT (Department of Zoology, the University Museum, the University of Tokyo). The species was described based on the holotype and 48 paratypes. Holotype ZUMT 52501 and two paratypes, ZUMT 54 347 and ZUMT 54 348, are registered in the ZUMT collection, although not mentioned in the original description. Paratypes other than ZUMT are not described in the original description, so the storage location is unknown.

原記載の標本略号 ZIUT (Zoological Institute, Faculty of Science, University of Tokyo) は、ZUMT (Department of Zoology, the University Museum, the University of Tokyo)と同じである。この種は、ホロタイプと 48 個体のパラタイプに基づいて記載された。ZUMT コレクションにホロタイプ ZUMT 52501 と原記載に記述はないがパラタイプ 2 標本、ZUMT 54347 と ZUMT 54348 が登録されている。ZUMT 以外のパラタイプは、原記載に記述がないため、保管場所は不明。

Current status: Valid as *Saurida isarankurai* Shindo & Yamada, 1972

Waples, R. S. 1982 [1981]. A biochemical and morphological review of the lizardfish genus *Saurida* in Hawaii, with the description of a new species. Pacific Science, 35 (3): 217–235.

Motomura, H., Alama, U. B., Muto, N., Babaran, R. P. and Ishikawa, S. (eds). 2017. Commercial and bycatch market fishes of Panay Island, Republic of the Philippines. The Kagoshima University Museum, Kagoshima, University of the Philippines Visayas, Iloilo, and Research Institute for Humanity and Nature, Kyoto, Japan. 246 pp.

Saurida macrolepis Tanaka, 1917　マエソダマシ

Original description: Tanaka (1917): 39.

田中茂穂．1917．日本産魚類の六新種．動物学雑誌，29 (340): 37–40. [Tanaka, S. 1917. Six new species of Japanese fishes. Zoological Magazine Tokyo, 29 (340): 37–40. (In Japanese)]

Syntype (lost): ZUMT 7477 (1), Tokyo Market, Japan.
Syntypes (available): ZUMT 7478 (1), ZUMT 7479 (1), Tokyo Market, Japan.

Remarks: There is no holotype designation in the original description. In the records of the ZUMT specimen ledger, the scientific names and collected data matched the three specimens of ZUMT 7477 to 7479. These specimens are thin type (ICZN Art. 73.2.). Writing "7477 type" in the ZUMT specimen ledger is not evidence of the holotype fixation. It is not considered to be a fixed holotype by the original designation (ICZN Art. 72.4.7, 73.1.1).

Inoue and Nakabo (2006) regarded ZUMT 7477 as a holotype and ZUMT 7478 and ZUMT 7479 as paratypes. Since the ZUMT 7477 is missing, the paratype ZUMT 7478 has been designated as the neotype of this species. They made the ZUMT 7477 a holotype, but the specimen is one of the syntypes. After specifying the neotype, this neotype will be discarded when the syntypes of this species, ZUMT 7478 and ZUMT 7479, are present. These specimens are revived as the name-bearing type (ICZN Art. 75.8).

原記載にはホロタイプの指定がない。ZUMT 標本台帳の記録では学名や収集データに ZUMT 7477–7479 の 3 標本が一致した。これらの標本はシンタイプである(ICZN Art. 73.2)。ZUMT 標本台帳にある「7477 type」の書き込みは、ホロタイプを固定した証拠にはならない。原指定によるホロタイプの固定とは見なされない(ICZN Art. 72.4.7, 73.1.1)。

Inoue and Nakabo (2006)は、ZUMT 7477 をホロタイプに、ZUMT 7478 と ZUMT 7479 をパラタイプと見なした。ZUMT 7477 が紛失しているため、パラタイプ ZUMT 7478 を本種のネオタイプに指定した。彼らが ZUMT 7477 をホロタイプとしたが、その標本はシンタイプの 1 つである。ネオタイプを指定した後で、本種のシンタイプである ZUMT 7478 と ZUMT 7479 が存在する時点で、このネオタイプは破棄される。その標本が担名タイプとして復活する（ICZN Art. 75.8）。

Current status: Valid as *Saurida macrolepis* Tanaka, 1917 マエソ

Inoue, T. and Nakabo, T. 2006. The *Saurida undosquamis* group (Aulopiformes: Synodontidae), with description of a new species from southern Japan. Ichthyological Research, 53 (4): 379–397.

Russell, B. C., Golani, D. and Tikochinski, Y. 2015. *Saurida lessepsianus* a new species of lizardfish (Pisces: Synodontidae) from the Red Sea and Mediterranean Sea, with a key to *Saurida* species in the Red Sea. Zootaxa, 3956 (4): 559–568.

Yeo, M. and Kim, J.-K. 2018. Taxonomic review of the genus *Saurida* (Aulopiformes: Synodontidae) from Korea. Korean Journal of Ichthyology, 30 (4): 205–216. [In Korean with English abstract]

Saurida micropectoralis Shindo & Yamada, 1972

Original description: Shindo and Yamada (1972): 11–12: fig. 9.

Shindo, S. and Yamada, U. 1972. Descriptions of three new species of the lizardfish genus *Saurida*, with a key to its Indo–Pacific species. UO (Japanese Society of Ichthyologists), 11: 1–13, 12: 1–14.

Holotype (available): ZUMT 52503, Prachambkirikan Province, Gulf of Thailand, Thailand.
Paratype (available): ZUMT 54349 (1), same as holotype.

Remarks: The original specimen abbreviation ZIUT (Zoological Institute, Faculty of Science, University of Tokyo) is the same as ZUMT (Department of Zoology, the University Museum, the University of Tokyo).

The species was described based on the holotypes and 32 paratypes. The holotype ZUMT 52503 and paratype ZUMT 54349 are registered in the ZUMT collection. Since there is no description in the original description, the storage location of paratypes other than ZUMT is unknown.

原記載の標本略号ZIUT(Zoological Institute, Faculty of Science, University of Tokyo)は、ZUMT(Department of Zoology, the University Museum, the University of Tokyo)と同じである。

この種は、ホロタイプと 32 個体のパラタイプに基づいて記載された。ZUMT コレクションにホロタイプ ZUMT 52503 と原記載に記述はないがパラタイプ ZUMT 54349 が登録されている。ZUMT 以外のパラタイプは、原記載に記述がないため、保管場所は不明。

Current status: Valid as *Saurida micropectoralis* Shindo & Yamada, 1972 コソデエソ

Habib, K. A. and Islam, M. J. 2020. An updated checklist of marine fishes of Bangladesh. Bangladesh Journal of Fisheries, 32 (2): 357–367.

Krishnan, S. and Mishra, S. S. 1994. On a collection of fish from middle and south Andaman Group of islands. Records of the Zoological Survey of India, 94 (2–4): 265–306.

Miyahara, H., Choi, Y., Yabe, M. and Nakaya, K. 2002. First record of a synodontid fish, *Saurida micropectoralis* from Japan. Japanese Journal of Ichthyology, 49 (2): 127–131.
Psomadakis, P., Thein, H., Russell, B. C. and Tun, M. T. 2020. Field identification guide to the living marine resources of Myanmar. FAO species identification guide for fishery purposes. Food and Agriculture Organization of the United Nations, and Department of Fisheries, Ministry of Agriculture, Livestock and Irrigation, Republic of the Union of Myanmar, Rome. xvii + 694 pp, pls. 1–58.

Saurida wanieso Shindo & Yamada, 1972

Original description: Shindo and Yamada (1972): 8, 12, fig. 8.

Shindo, S. and Yamada, U. 1972. Descriptions of three new species of the lizardfish genus *Saurida*, with a key to its Indo–Pacific species. UO (Japanese Society of Ichthyologists), 11: 1–13. 12: 1–14.

Holotype (available): ZUMT 52502, East China Sea.

Remarks: The original specimen abbreviation ZIUT (Zoological Institute, Faculty of Science, University of Tokyo) is the same as ZUMT (Department of Zoology, the University Museum, the University of Tokyo). The species was described based on the holotypes and 103 paratypes. The holotype ZUMT 52502 is registered in the ZUMT collection. Since there is no description in the original description, the storage location of paratypes other than ZUMT is unknown.

原記載の標本略号ZIUT(Zoological Institute, Faculty of Science, University of Tokyo)は、ZUMT(Department of Zoology, the University Museum, the University of Tokyo)と同じである。この種は、ホロタイプと 103 個体のパラタイプに基づいて記載された。ホロタイプ ZUMT 52502 は、ZUMT コレクションに登録されている。原記載に記述がないため、ZUMT 以外のパラタイプの保管場所は不明。

Current status: Valid as *Saurida wanieso* Shindo & Yamada, 1972 ワニエソ

岡村　収・北島忠弘（編）. 1984. 沖縄舟状海盆及び周辺海域の魚類 I. 日本水産資源保護協会，東京. 414 pp. [Okamura, O. and Kitajima, T. (eds). 1984. Fishes of the Okinawa Trough and the adjacent water I. Japan Fishery Resources on Conservation Association, Tokyo. 414 pp. (In Japanese and English)]
山田梅芳・田川　勝・岸田周三・本城康至. 1986. 東シナ海・黄海のさかな. 西海区水産研究所，長崎. xxvi + 502 pp. [Yamada, U., Tagawa, M., Kishida, S., and Honjo, K. 1986. Fishes of the East China Sea and the Yellow Sea. Seikai Regional Fisheries Research Laboratory, Nagasaki. xxvi + 502 pp. (In Japanese)]
Yamaoka, K., Nishiyama, M. and Taniguchi, N. 1989. Genetic divergence in lizardfishes of the genus *Saurida* from southern Japan. Japanese Journal of Ichthyology, 36 (2): 208–219.
清水孝昭. 2001. 愛媛県伊予市沿岸域の魚類目録. 徳島県立博物館研究報告，11: 17–99. [Shimizu, T. 2001. An annotated list of the coastal fishes from Iyo City, Ehime Pref., Japan. Bulletin of the Tokushima Prefectural Museum, 11: 17–99. (In Japanese with English abstract)]

中坊徹次（編）. 2013. 日本海産魚類検索全種の同定 I–III. 第三版. 東海大学出版会、秦野. 2530 pp. [Nakabo, T. (ed). 2013. Fishes of Japan with pictorial keys to the species I–III, third edition. Tokai University Press, Hadano. 2530 pp. (In Japanese)]
Yeo, M. and Kim, J.-K. 2018. Taxonomic review of the genus *Saurida* (Aulopiformes: Synodontidae) from Korea. Korean Journal of Ichthyology, 30 (4): 205–216. [In Korean with English abstract]
園山貴之・荻本啓介・堀　成夫・内田喜隆・河野光久. 2020. 証拠標本および画像に基づく山口県日本海産魚類目録. 鹿児島大学総合研究博物館研究報告, 11: 1–152. [Sonoyama, T., Ogimoto, K., Hori, S., Uchida, Y. and Kawano, M. 2020. An annotated checklist of marine fishes of the Sea of Japan off Yamaguchi Prefecture, Japan, with 74 new records. Bulletin of the Kagoshima University Museum, 11: 1–152. (In Japanese with English abstract)]

Synodus fuscus Tanaka, 1917　スナエソ

Original description: Tanaka (1917): 38.

田中茂穂. 1917. 日本産魚類の六新種. 動物学雑誌, 29 (340): 37–40. [Tanaka, S. 1917. Six new species of Japanese fishes. Zoological Magazine Tokyo, 29 (340): 37–40. (In Japanese)]

Holotype (lost): ZUMT 7472, Tokyo Market, Japan.

Remarks: There is no holotype designation in the original description. From the records in the ZUMT specimen ledger, only ZUMT 7472 matched the scientific name and the collection data. The ZUMT 7472 is holotype. The specimen has not been located at this time, and was judged to have been lost.

原記載にはホロタイプの指定がない。ZUMT 標本台帳の記録か、ZUMT 7472 のみが学名と収集データともに一致した。ZUMT 7472 はホロタイプである。現時点でこの標本は確認できないため、失われたと判断した。

Current status: Valid as *Synodus fuscus* Tanaka, 1917　スナエソ

Chen, J.-P., Ho, H.-C., and Shao, K.-T. 2007. A new lizardfish (Aulopiformes: Synodontidae) from Taiwan with descriptions of three new records. Zoological Studies, 46 (2): 148–154.
Cressey, R. F. 1981. Revision of Indo-West Pacific lizardfishes of the genus *Synodus* (Pisces: Synodontidae). Smithsonian Contributions to Zoology, 342: iii + 1–53.
益田　一・尼岡邦夫・荒賀忠一・上野輝彌・吉野哲夫（編）. 1984. 日本産魚類大図鑑. 東海大学出版会, 東京. xx + 448 pp., 370 pls. [Masuda, H., Amaoka, K. Araga, C., Ueno, T. and Yoshino, T. (eds). 1984. The Fishes of the Japanese Archipelago. Tokai University Press, Tokyo. xx + 448 pp., 370 pls.]
中坊徹次・町田吉彦・山岡耕作・西田清徳（編）. 2001. 以布利黒潮の魚, ジンベエザメからマンボウまで. 大阪海遊館, 大阪. 300 pp. [Nakabo, T., Machida, Y., Yamaoka, K. and Nishida, K. (eds). 2001. Fishes of the Kuroshio Current, Japan. Osaka Aquarium Kaiyukan, Osaka. 300 pp. (In Japanese and English)]

中坊徹次（編）. 2013. 日本海産魚類検索全種の同定 I–III. 第三版. 東海大学出版会、秦野. 2530 pp. [Nakabo, T. (ed). 2013. Fishes of Japan with pictorial keys to the species I–III, third edition. Tokai University Press, Hadano. 2530 pp. (In Japanese)]

Synodus hoshinonis Tanaka, 1917　ホシノエソ

Original description: Tanaka (1917): 38.

田中茂穂. 1917. 日本産魚類の六新種. 動物学雑誌. 29 (340): 37–40. [Tanaka, S. 1917. Six new species of Japanese fishes. Zoological Magazine Tokyo, 29 (340): 37–40. (In Japanese)]

Holotype (available): ZUMT 7476, Hiro, Hirokawa, Arita Dist., Wakayama Pref., Japan; collected by Isaburo Hoshino.（紀伊國廣［和歌山県有田郡広川町広］星野伊三郎採集）

Remarks: There is no holotype designation in the original description. ZUMT 7476 is the only specimen that matches the scientific name and collection data from the records in the ZUMT specimen ledger. ZUMT 7476 is a holotype (ICZN Art. 72.4.1.1, 73.1.5).

原記載にはホロタイプの指定がない。ZUMT 7476 は、ZUMT 標本台帳の記録から学名と収集データが一致した唯一標本である。ZUMT 7476 はホロタイプである(ICZN Art. 72.4.1.1, 73.1.5)。

Current status: Valid as *Synodus hoshinonis* Tanaka, 1917 ホシノエソ

Cressey, R. F. 1981. Revision of Indo-West Pacific lizardfishes of the genus *Synodus* (Pisces: Synodontidae). Smithsonian Contributions to Zoology, 342: iii + 1–53.

益田　一・尼岡邦夫・荒賀忠一・上野輝彌・吉野哲夫（編）. 1984. 日本産魚類大図鑑. 東海大学出版会，東京. xx + 448 pp., 370 pls. [Masuda, H., Amaoka, K. Araga, C., Ueno, T. and Yoshino, T. (eds). 1984. The Fishes of the Japanese Archipelago. Tokai University Press, Tokyo. xx + 448 pp., 370 pls.]

中坊徹次（編）. 2013. 日本海産魚類検索全種の同定 I–III. 第三版. 東海大学出版会、秦野. 2530 pp. [Nakabo, T. (ed). 2013. Fishes of Japan with pictorial keys to the species I–III, third edition. Tokai University Press, Hadano. 2530 pp. (In Japanese)]

Motomura, H., Alama, U. B., Muto, N., Babaran, R. P. and Ishikawa, S. (eds.). 2017. Commercial and bycatch market fishes of Panay Island, Republic of the Philippines. The Kagoshima University Museum, Kagoshima, University of the Philippines Visayas, Iloilo, and Research Institute for Humanity and Nature, Kyoto, Japan. 246 pp.

Synodus macrops Tanaka, 1917　チョオチョオエソ

Original description: Tanaka (1917): 38.

田中茂穂. 1917. 日本産魚類の六新種. 動物学雑誌, 29 (340): 37–40. [Tanaka, S. 1917. Six new species of Japanese fishes. Zoological Magazine Tokyo, 29 (340): 37–40. (In Japanese)]

Syntypes (available): ZUMT 7473, ZUMT 7474, ZUMT 7475, Tokyo Market, Japan.

Remarks: There is no holotype designation in the original description. From the records in the ZUMT specimen ledger, 3 specimens, ZUMT 7473, ZUMT 7474, and ZUMT 7475, matched the scientific name and collection site. In addition, there was a note of "7473 type". The writing of "7473 type" in the ZUMT specimen ledger is not always evidence fixed to the holotype. Not a holotype fixed by the original designation (ICZN Art. 72.4.7, 73.1.1). These specimens are syntypes (ICZN Art. 73.2).

原記載にはホロタイプの指定がない。ZUMT 標本台帳の記録では 3 標本 ZUMT 7473–7475 が学名や採集地に一致した。さらに「7473 type」の書き込みがあった。ZUMT 標本台帳にある「7473 type」の書き込みは、ホロタイプに固定された証拠であるとは限らない。原指定による固定されたホロタイプでない（ICZN Art. 72.4.7, 73.1.1）。これらの標本はシンタイプである（ICZN Art. 73.2）。

Current status: Valid as *Synodus macrops* Tanaka, 1917 チョオチョオエソ

Cressey, R. F. 1981. Revision of Indo-West Pacific lizardfishes of the genus *Synodus* (Pisces: Synodontidae). Smithsonian Contributions to Zoology, 342: iii + 1–53.

Ho, H.-C., Chen, J.-P., and Shao, K.-T. 2016. A new species of the lizardfish genus *Synodus* (Aulopiformes: Synodontidae) from the western Pacific Ocean. Zootaxa, 4162 (1): 134–142.

益田　一・尼岡邦夫・荒賀忠一・上野輝彌・吉野哲夫（編）．1984．日本産魚類大図鑑．東海大学出版会，東京．xx + 448 pp., 370 pls. [Masuda, H., Amaoka, K. Araga, C., Ueno, T. and Yoshino, T. (eds). 1984. The Fishes of the Japanese Archipelago. Tokai University Press, Tokyo. xx + 448 pp., 370 pls.]

岡村　収・北島忠弘（編）．1984．沖縄舟状海盆及び周辺海域の魚類 I．日本水産資源保護協会，東京．414 pp. [Okamura, O. and Kitajima, T. (eds). 1984. Fishes of the Okinawa Trough and the adjacent water I. Japan Fishery Resources on Conservation Association, Tokyo. 414 pp. (In Japanese and English)]

山田梅芳・田川　勝・岸田周三・本城康至．1986．東シナ海・黄海のさかな．西海区水産研究所，長崎．xxvi + 502 pp. [Yamada, U., Tagawa, M., Kishida, S., and Honjo, K. 1986. Fishes of the East China Sea and the Yellow Sea. Seikai Regional Fisheries Research Laboratory, Nagasaki. xxvi + 502 pp. (In Japanese)]

中坊徹次（編）．2013．日本海産魚類検索全種の同定 I–III．第三版．東海大学出版会、秦野．2530 pp. [Nakabo, T. (ed). 2013. Fishes of Japan with pictorial keys to the species I–III, third edition. Tokai University Press, Hadano. 2530 pp. (In Japanese)]

藤原恭司・本村浩之．2017．鹿児島県本土から得られた九州初記録のエソ科魚類チョウチョウエソ．Nature of Kagoshima 43: 45–48. [Fujiwara, K. and Motomura, H. 2017. First records of *Synodus macrops* (Aulopiformes: Synodontidae) from coastal waters of Kyushu, southern Japan. Nature of Kagoshima 43: 45–48. (In Japanese)]

Motomura, H., Alama, U. B., Muto, N., Babaran, R. P. and Ishikawa, S. (eds). 2017. Commercial and bycatch market fishes of Panay Island, Republic of the Philippines. The Kagoshima University Museum, Kagoshima, University of the Philippines Visayas, Iloilo, and Research Institute for Humanity and Nature, Kyoto, Japan. 246 pp.

Paralepididae　ハダカエソ科

Lestidium japonicum Tanaka, 1908

Original description: Tanaka (1908): 27.

Tanaka, S. 1908. Descriptions of eight new species of fishes from Japan. Annotationes Zoologicae Japonenses, 7 (1): 27–47.

Holotype (available): ZUMT 2013, off Misaki (Sagami Bay), Japan; 1908; collected by Kumakichi Aoki.

Paratype (available): ZUMT 2014 (1), same as holotype.

Remarks: The original description was based on 2 specimens and designated ZUMT 2013 as the holotype. ZUMT 2013 and ZUMT 2014 were the specimens that matched the scientific name and collection data from the ZUMT specimen ledger. The paratype is ZUMT 2014 (ICZN Art. 72.4.5).

原記載は 2 つの標本に基づいて記載され、ホロタイプに ZUMT 2013 を指定した。ZUMT 標本台帳から学名と収集データに一致した標本に ZUMT 2013 と ZUMT 2014 があった。パラタイプは ZUMT 2014 である(ICZN Art. 72.4.5)。

Current status: Valid as *Lestrolepis japonica* (Tanaka, 1908) ハダカエソ

中坊徹次（編）. 2013. 日本海産魚類検索全種の同定 I–III. 第三版. 東海大学出版会、秦野. 2530 pp. [Nakabo, T. (ed). 2013. Fishes of Japan with pictorial keys to the species I–III, third edition. Tokai University Press, Hadano. 2530 pp. (In Japanese)]

Ho, H.-C., Tsai, S.-Y. and Li, H.-H. 2019. The barracudina genera *Lestidium* and *Lestrolepis* of Taiwan, with descriptions of two new species (Aulopiformes: Paralepididae). Zootaxa, 4702 (1): 114–139.

Myctophidae　ハダカイワシ科

Diaphus kuroshio Kawaguchi & Nafpaktitis, 1978　クロシオハダカ

Original description: Kawaguchi and Nafpaktitis (1978): 89, figs. 1–2.

Kawaguchi, K. and Nafpaktitis, B. G. 1978. A new lanternfish, *Diaphus kuroshio* (family Myctophidae), from the Kuroshio waters off Japan. Japanese Journal of Ichthyology, 25 (2): 89–91.

Holotype (available): ZUMT 54126 (female, 61.5 mm SL), 31°24.1N', 136°52.4'E, cruise KH 77–2, sta. 18; 11 July 1977; collected with IKMT–10 ft., 3000 m wire out.

Paratypes (available): ZUMT 54127, ZUMT 54128, ZUMT 54129, ZUMT 54130 (4), 35°09.3'N, 139°16.8'E, cruise KT67-1, sta.207; 18 Jan. 1967; collected with ORI-net, 2000 m wire out (0–750 m).

Current status: Valid as *Diaphus kuroshio* Kawaguchi & Nafpaktitis, 1978 クロシオハダカ

Paxton, J. R. 1979. Nominal genera and species of lanternfishes (family Myctophidae). Contributions in Science (Los Angeles), 322: 1–28.

中坊徹次（編）. 2013. 日本海産魚類検索全種の同定 I–III. 第三版. 東海大学出版会、秦野. 2530 pp. [Nakabo, T. (ed). 2013. Fishes of Japan with pictorial keys to the species I–III, third edition. Tokai University Press, Hadano. 2530 pp. (In Japanese)]

Prokofiev, A. M., Emelyanova, O. R., Orlov, A. M. and Orlova, S. Y. 2022. A new species of *Diaphus* associated with seamounts of the Emperor Chain, north-western Pacific Ocean (Teleostei: Myctophiformes: Myctophidae). Journal of Marine Science and Engineering, 10: 1–13.

Gadiformes　タラ目

Moridae　チゴダラ科

Haloporphyrus oidema Tanaka, 1927　カッタイボヒゲ

Original description: Tanaka (1927): 796, pl. 171 (fig. 472).

田中茂穂. 1927. 日本産魚類図説. 41: 785–808, pls. 170–171. [Tanaka, S. 1927. Figures and descriptions of the fishes of Japan including Riukiu Islands, Bonin Islands, Formosa, Kurile Islands, Korea, and Southern Sakhalin. Vol. 41: 785–808, pls. 170–171. (In Japanese and English)]

Holotype (available): ZUMT 14352, Okinose, off Misaki (Sagami Sea), Kanagawa Pref., Japan.

Paratypes (available): ZUMT 14351 (1), same as holotype.

Remarks: In the original description, ZUMT 14352 was specified as the holotype. In addition, ZUMT 14351 was added. This specimen is paratype (ICZN Art. 72.4.5).

原記載にはホロタイプに ZUMT 14352 を指定した。さらに ZUMT 14351 を加えた。この標本はパラタイプである(ICZN Art. 72.4.5)。

Current status: Synonym of *Lepidion inosimae* (Günther, 1887) クロソコダラ

Nakaya K., Amaoka, K. and Abe, K. 1980. A Review of the Genus *Lepidion* (Gadiformes, Moridae) from the Northwestern Pacific. Japanese Journal of Ichthyology, 27 (1): 41–47.

Cohen, D. M., Inada, T., Iwamoto, T. and Scialabba, N. 1990. FAO species catalogue. Vol. 10. Gadiform fishes of the world (order Gadiformes). An annotated and illustrated catalogue of cods, hakes, grenadiers and other gadiform fishes known to date. FAO (Food and Agriculture Organization of the United Nations) Fisheries Synopsis, 10: x + 442 pp.

中坊徹次（編）. 2013. 日本海産魚類検索全種の同定 I–III. 第三版. 東海大学出版会、秦野. 2530 pp. [Nakabo, T. (ed). 2013. Fishes of Japan with pictorial keys to the species I–III, third edition. Tokai University Press, Hadano. 2530 pp. (In Japanese)]

中村潤平・山口　実・本村浩之．2018．琉球列島初記録のチゴダラ科魚類ソコクロダラ．Nature of Kagoshima 45: 99–102. [Nakamura, J., Yamaguchi, M., and Motomura, H. 2018. First record of *Lepidion inosimae* (Gadiformes: Moridae) from the Ryukyu Islands, Japan. Nature of Kagoshima, 45: 99–102. (In Japanese)]

Bregmacerotidae　サイウオ科

Bregmaceros atlanticus japonicus Tanaka, 1908

Original description: Tanaka (1908): 42, Figured.

Tanaka, S. 1908. Descriptions of eight new species of fishes from Japan. Annotationes Zoologicae Japonenses, 7 (1): 27–47.

Holotype (available): ZUMT 2015, Sagami Bay, Japan; 1908; collected by Kumakichi Aoki.
Paratypes (lost): ZUMT 2016 (3), same as holotype.

Remarks: In the original description, ZUMT 2015 was designated as the holotype, and the description was based on 3 other samples. From the records of the ZUMT specimen ledger, ZUMT 2016 has the same collection data as the holotype, and 3 individuals were registered. ZUMT 2016 is a paratypes (ICZN Art. 72.4.5). These paratypes have not been located at this time, and are judged to have been lost.

原記載は ZUMT 2015 をホロタイプに指定し、他に 3 標本に基づいて記載された。ZUMT 標本台帳の記録から ZUMT 2016 は、ホロタイプと同じ収集データであり、3 個体が登録されていた。ZUMT 2016 はパラタイプである(ICZN Art. 72.4.5)。現時点でこの標本は確認できないため、失われたと判断した。

Current status: Valid as *Bregmaceros japonicus* Tanaka, 1908　サイウオ

田中茂穂．1913．日本産魚類図説．11: 187–198, pls. 51–55. [Tanaka, S. 1913. Figures and descriptions of the fishes of Japan including Riukiu Islands, Bonin Island, Formosa, Kurile Islands, Korea, and Southern Sakhalin. Vol. 11: 187–198, pls. 51–55. (In Japanese and English)]

Masuda, S. and Ozawa, T. 1979. Reexamination of the holotype of *Bregmaceros japonicus* Tanaka and *B. nectabanus* Whitley. Japanese Journal of Ichthyology, 25 (4): 266–268.

岡村　収・尼岡邦夫・三谷文夫（編）．1982．九州ーパラオ海嶺ならびに土佐湾の魚類．日本水産資源保護協会，東京．436 pp. [Okamura, O., Amaoka, K. and Mitani, F. (eds). 1982. Fishes of the Kyushu-Palau Ridge and Tosa Bay. The intensive research of unexploited fishery resources on continental slopes. Japan Fisheries Resource Conservation Association, Tokyo. 435 pp. (In Japanese and English)]

岡村　収・北島忠弘（編）．1984．沖縄舟状海盆及び周辺海域の魚類 I．日本水産資源保護協会，東京．414 pp. [Okamura, O. and Kitajima, T. (eds). 1984. Fishes of the Okinawa Trough and the adjacent water I. Japan Fishery Resources on Conservation Association, Tokyo. 414 pp. (In Japanese and English)]

Torii A., Ozawa, T. and Harold, A. S. 2003. Morphological characters of *Bregmaceros japonicus* Tanaka, 1908 (Gadiformes: Bregmacerotidae). Memoirs of the Faculty of Fisheries, Kagoshima University, 52: 43–50.
中坊徹次（編）. 2013. 日本海産魚類検索全種の同定 I–III. 第三版. 東海大学出版会、秦野. 2530 pp. [Nakabo, T. (ed). 2013. Fishes of Japan with pictorial keys to the species I–III, third edition. Tokai University Press, Hadano. 2530 pp. (In Japanese)]
園山貴之・荻本啓介・堀　成夫・内田喜隆・河野光久. 2020. 証拠標本および画像に基づく山口県日本海産魚類目録. 鹿児島大学総合研究博物館研究報告, 11: 1–152. [Sonoyama, T., Ogimoto, K., Hori, S., Uchida, Y. and Kawano, M. 2020. An annotated checklist of marine fishes of the Sea of Japan off Yamaguchi Prefecture, Japan, with 74 new records. Bulletin of the Kagoshima University Museum, 11: 1–152. (In Japanese with English abstract)]

Bregmaceros neonectabanus Masuda, Ozawa & Tabeta, 1986　クロハラサイウオ

Original description: Masuda, Ozawa and Tabeta (1986): 393, fig. 3.

Cohen, D. M., Inada, T., Iwamoto, T. and Scialabba, N. 1990. FAO species catalogue. Vol. 10. Gadiform fishes of the world (order Gadiformes). An annotated and illustrated catalogue of cods, hakes, grenadiers and other gadiform fishes known to date. FAO (Food and Agriculture Organization of the United Nations) Fisheries Synopsis, 10: x + 442 pp.
Masuda, S., Ozawa, T., and Tabeta, O. 1986. *Bregmaceros neonectabanus*, a new species of the family Bregmacerotidae, Gadiformes. Japanese Journal of Ichthyology, 32 (4): 392–399.

Holotype (available): ZUMT 54587, stranded on Shingu Beach, Shingu Town, Fukuoka Pref., northern Kyushu, Japan; 27 Dec. 1965.（福岡県糟屋郡新宮町新宮海岸）
Paratypes (available): ZUMT 54588, ZUMT 54589, ZUMT 54590, same as holotype.

Current status: Valid as *Bregmaceros neonectabanus* Masuda, Ozawa & Tabeta, 1986 クロハラサイウオ

Cohen, D. M., Inada, T., Iwamoto, T. and Scialabba, N. 1990. FAO species catalogue. Vol. 10. Gadiform fishes of the world (order Gadiformes). An annotated and illustrated catalogue of cods, hakes, grenadiers and other gadiform fishes known to date. FAO (Food and Agriculture Organization of the United Nations) Fisheries Synopsis, 10: x + 442 pp.
Fricke, R., Allen, G. R., Andréfouët, S., Chen, W.–J., Hamel, M. A., Laboute, P., Mana, R., Tan, H. H. and Uyen, D. 2014. Checklist of the marine and estuarine fishes of Madang District, Papua New Guinea, western Pacific Ocean, with 820 new records. Zootaxa, 3832 (1): 1–247.
中坊徹次（編）. 2013. 日本海産魚類検索全種の同定 I–III. 第三版. 東海大学出版会、秦野. 2530 pp. [Nakabo, T. (ed). 2013. Fishes of Japan with pictorial keys to the species I–III, third edition. Tokai University Press, Hadano. 2530 pp. (In Japanese)]

Macrouridae　ソコダラ科

Coelorinchus kaiyomaru Arai & Iwamoto, 1979

Original description: Arai and Iwamoto (1979): 238, figs. 1–7.

Arai, T. and Iwamoto, T. 1979. A new species of the macrourid fish genus *Coelorinchus* from off Tasmania, New Zealand, and the Falkland Islands. Japanese Journal of Ichthyology, 26 (3): 238–246.

Paratypes (available): ZUMT 54203, ZUMT 54204, ZUMT 54205, south of Tasmania (47°15.1' S, 148°30.8 'E); 949 m depth (bottom temperature 5.54°C); 22 Dec. 1975; collected with otter trawl, by RV *Kaiyo Maru* (sta. T60).

Current status: Valid as *Coelorinchus kaiyomaru* Arai & Iwamoto, 1979 カイヨウマルソコダラ

Paulin, C. D., Stewart, A. L., Roberts, C. D. and McMillan, P. J. 1989. New Zealand fish a complete guide. National Museum of New Zealand Miscellaneous Series, 19: xiv + 279 pp., 8 pls.

尼岡邦夫・松浦啓一・稲田伊史・武田正倫・畑中　寛・岡田啓介（編）. 1990. ニュージーランド海域の水族，深海丸により採集された魚類・頭足類・甲殻類. 海洋水産資源開発センター，東京. 411 pp. [Amaoka, K., Matsuura, K., Inada, T., Takeda, M., Hatanaka, H. and Okada, K. (eds). 1990. Fishes collected by the R/V Shinkai Maru around New Zealand. Japan Marine Fishery Resource Research Center, Tokyo. 410 pp. (In Japanese and English)]

Lionurus tomiyamai Okamura, 1963　トミヤマヒゲ

Original description: Okamura (1963): 31, figs. 8–10.

Okamura, O. 1963. Two new and one rare macrouroid fishes of the genera, *Coelorhynchus* and *Lionurus*, found in the Japanese waters. Bulletin of the Misaki Marine Biological Institute, Kyoto University, 4: 21–35.

Holotype (available): ZUMT 52045, eastern coast of Japan.

Current status: Valid as *Nezumia tomiyamai* (Okamura, 1963) トミヤマヒゲ

Cohen, D. M., Inada, T., Iwamoto, T. and Scialabba, N. 1990. FAO species catalogue. Vol. 10. Gadiform fishes of the world (order Gadiformes). An annotated and illustrated catalogue of cods, hakes, grenadiers and other gadiform fishes known to date. FAO (Food and Agriculture Organization of the United Nations) Fisheries Synopsis, 10: x + 442 pp.

中坊徹次（編）. 2013. 日本海産魚類検索全種の同定 I–III. 第三版. 東海大学出版会、秦野. 2530 pp. [Nakabo, T. (ed). 2013. Fishes of Japan with pictorial keys to the species I–III, third edition. Tokai University Press, Hadano. 2530 pp. (In Japanese)]

Nakayama, N. 2020. Grenadiers (Teleostei: Gadiformes: Macrouridae) of Japan and adjacent waters, a taxonomic monograph. Megataxa, 3 (1): 1–383.

Ventrifossa longibarbata Okamura, 1982　オキナヒゲ

Original description: Okamura (1982): 157, pl. 94.

岡村　収・尼岡邦夫・三谷文夫（編）．1982．九州－パラオ海嶺ならびに土佐湾の魚類．日本水産資源保護協会，東京．436 pp. [Okamura, O., Amaoka, K. and Mitani, F. (eds). 1982. Fishes of the Kyushu-Palau Ridge and Tosa Bay. The intensive research of unexploited fishery resources on continental slopes. Japan Fisheries Resource Conservation Association, Tokyo. 435 pp. (In Japanese and English)]

Paratype (available): ZUMT 54272 (1), off Toi (Suruga Bay), Shizuoka Pref., Japan; 382–425 m depth; 20 Nov. 1978.（静岡県土肥沖，駿河湾）

Current status: Valid as *Ventrifossa longibarbata* Okamura, 1982 オキナヒゲ

Cohen, D. M., Inada, T., Iwamoto, T. and Scialabba, N. 1990. FAO species catalogue. Vol. 10. Gadiform fishes of the world (order Gadiformes). An annotated and illustrated catalogue of cods, hakes, grenadiers and other gadiform fishes known to date. FAO (Food and Agriculture Organization of the United Nations) Fisheries Synopsis, 10: x + 442 pp.

岡村　収・北島忠弘（編）．1984．沖縄舟状海盆及び周辺海域の魚類 I．日本水産資源保護協会，東京．414 pp. [Okamura, O. and Kitajima, T. (eds). 1984. Fishes of the Okinawa Trough and the adjacent water I. Japan Fishery Resources on Conservation Association, Tokyo. 414 pp. (In Japanese and English)]

Iwamoto, T. and Williams, A. 1999. Grenadiers (Pisces, Gadiformes) from the continental slope of western and northwestern Australia. Proceedings of the California Academy of Sciences, 51 (3): 105–243.

中坊徹次（編）．2013．日本海産魚類検索全種の同定 I–III．第三版．東海大学出版会、秦野．2530 pp. [Nakabo, T. (ed). 2013. Fishes of Japan with pictorial keys to the species I–III, third edition. Tokai University Press, Hadano. 2530 pp. (In Japanese)]

Nakayama, N. 2020. Grenadiers (Teleostei: Gadiformes: Macrouridae) of Japan and adjacent waters, a taxonomic monograph. Megataxa, 3 (1): 1–383.

Ophidiiformes　アシロ目

Carapidae　カクレウオ科

Carapus sagamianus Tanaka, 1908

Original description: Tanaka (1908): 40.

Tanaka, S. 1908. Descriptions of eight new species of fishes from Japan. Annotationes Zoologicae Japonenses, 7 (1): 27–47.

Holotype (available): ZUMT 1951 [not 1751], off Misaki (Sagami Bay), Kanagawa Pref., Japan; 1908.

Paratypes (available): ZUMT 1952 [not 1752] (7), same as holotype.

Remarks: The original description is based on 9 specimens including the holotype ZUMT 1751. The original description indicates that the holotype registration number is ZUMT 1751, but the correct number is ZUMT 1951. ZUMT 1952 in the ZUMT specimen ledger is recorded to contain 8 individuals with the same collected data as the holotype, but there are currently seven specimens, and one individual has been lost. These are paratypes (ICZN Art. 72.4.5).

原記載にはホロタイプ ZUMT 1751 を含む 9 標本に基づいて記載された。原記載ではホロタイプの登録番号が ZUMT 1751 と示されたが、正しい番号は ZUMT 1951 である。ZUMT 標本台帳の ZUMT 1952 は、ホロタイプと同じ収集データで 8 個体を含むと記録されているが、標本は現在 7 個体あり、1 個体は紛失している。これらはパラタイプである(ICZN Art. 72.4.5)。

Current status: Valid as *Encheliophis sagamianus* (Tanaka, 1908) カクレウオ

田中茂穂. 1913. 日本産魚類図説. 11: 187–198, pls. 51–55. [Tanaka, S. 1913. Figures and descriptions of the fishes of Japan including Riukiu Islands, Bonin Islands, Formosa, Kurile Islands, Korea, and Southern Sakhalin. Vol. 11: 187–198, pls. 51–55. (In Japanese and English)]

Trott, L. B. 1972. *Jordanicus sagamianus* (Tanaka) (Paracanthopterygii: Gadiformes): a redescription. UO (Japanese Society of Ichthyologists), 7: 1–7.

Markle, D. F. and Olney, J. E. 1990. Systematics of the pearlfishes (Pisces: Carapidae). Bulletin of Marine Science, 47 (2): 269–410.

Nielsen, J. G., Cohen, D. M., Markle, D. F., and Robins. C. R. 1999. FAO species catalogue. Volume 18. Ophidiiform fishes of the world (Order Ophidiiformes). An annotated and illustrated catalogue of pearlfishes, brotulas and other ophidiirorm fishes known to date. FAO (Food and Agriculture Organization of the United Nations) Fisheries Synopsis, 18: xi +178 pp.

中坊徹次（編）. 2013. 日本海産魚類検索全種の同定 I–III. 第三版. 東海大学出版会、秦野. 2530 pp. [Nakabo, T. (ed). 2013. Fishes of Japan with pictorial keys to the species I–III, third edition. Tokai University Press, Hadano. 2530 pp. (In Japanese)]

Ophidiidae アシロ科

Hoplobrotula badia Machida, 1990 クロヨロイイタチウオ

Original description: Machida (1990): 209, figs. 1–3.

Machida, Y. 1990. A new ophidiid species, *Hoplobrotula badia*, from Sagami Bay, central Japan. Japanese Journal of Ichthyology, 37 (3): 209–214.

Holotype (available): ZUMT 57621, Odawara Fish Market (Sagami Bay), Hayakawa, Odawara City, Kanagawa Pref., Japan.

Remarks: Although it is Manazuru in the original description, it was landed at the Odawara Fish Market.

原記載では真鶴となっているが、小田原魚市場に水揚げされたものであった。

Current status: Valid as *Hoplobrotula badia* Machida, 1990 クロヨロイイタチウオ
Nielsen, J. G., Cohen, D. M., Markle, D. F., and Robins. C. R. 1999. FAO species catalogue. Volume 18. Ophidiiform fishes of the world (Order Ophidiiformes). An annotated and illustrated catalogue of pearlfishes, brotulas and other ophidiirorm fishes known to date. FAO (Food and Agriculture Organization of the United Nations) Fisheries Synopsis, 18: xi + 178 pp.
中坊徹次（編）. 2013. 日本海産魚類検索全種の同定 I–III. 第三版. 東海大学出版会、秦野. 2530 pp. [Nakabo, T. (ed). 2013. Fishes of Japan with pictorial keys to the species I–III, third edition. Tokai University Press, Hadano. 2530 pp. (In Japanese)]