

Fish types deposited in the Department of Zoology, The University Museum, The University of Tokyo - Part 1: Anguilliformes

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—第1部：ウナギ目

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Abstract

The current status of type specimens of Anguilliformes in the ZUMT collection were investigated with recourse to original descriptions, information tags on specimens, and/or the ZUMT specimen ledger. Of the 11 holotypes, three syntypes, and nine paratypes purported to be in the collection and applicable to 15 species in five families, only seven holotypes and seven paratypes have been located to date.

Introduction

The fish collection, preserved in the Department of Zoology, The University Museum, The University of Tokyo (ZUMT), was established in 1904 by Shigeho Tanaka (1878–1974), a graduate of the Department of Zoology, Faculty of Science, The University of Tokyo. He registered a large number and variety of fish specimens, collected not only by himself or others in the department, but also donated by teachers at junior and senior high schools, fishery experimental station staff, and volunteers from all over Japan, plus many expatriates. The collection and registration of specimens were not necessarily done at the same time, with Ichiro Tomiyama (1906–1981), a student of Tanaka's, being actively involved in the registration of unregistered specimens from around 1935. Subsequently, management of the ZUMT collection was undertaken by Tokiharu Abe (1911–1996), who had also studied under Tanaka, and Yoshiaki Tominaga (1936–1994), who had studied under Ichiro Tomiyama. However, since the mid-1990s, there has been no regular collection manager, the only management input having been from MA and KS, both as volunteers. To date, the ZUMT fish collection comprises about 63,000 specimens, including more than 800 type specimens of 300 species, the majority of which were collected over a period of about 50 years (from the 1890s until Tanaka's retirement in 1939). However, during its more than 100 years of history, the ZUMT collection has lost some of its specimens (including type specimens), due to the Great Kanto Earthquake, the Pacific War, and three re-locations of the collection.

Shigeho Tanaka was the first modern Japanese ichthyologist, describing nearly 170 new species, many in his series "Figures and descriptions of the fishes of Japan including Riukiu

Islands, Bonin Islands, Formosa, Kurile Islands, Korea, and Southern Sakhalin", written in English and Japanese and published between 1911 and 1930, and his series "XX new species of Japanese fishes (in *Dobutsugaku Zasshi* = Zoological Magazine Tokyo)", published between 1915 and 1918. In many cases, the former series clearly designated type specimens, but in the latter, important information, including number of type specimens and identification of primary types, was often not included. Accordingly, the current designation and status of type specimens in the ZUMT collection is now under review. The present list is a summary of Anguilliformes type specimens of Anguilliformes currently held.

ZUMT の魚類コレクションは、1904 年に東京大学理学部動物学科を卒業した田中茂穂 (1878–1974) によって収集が開始された。彼は自身や動物学教室の教員が収集した魚類標本に加えて、日本全国の中学、高校の教員、水産試験場職員、ボランティア、海外駐在員から提供されたさまざまな魚類を ZUMT コレクションに登録した。標本の収集と登録は必ずしも同時に行われたわけではないが、田中の弟子である富山一郎 (1906–1981) を中心として、これら未登録標本の登録作業が 1935 年頃より積極的におこなわれている。その後、ZUMT コレクションの管理と蓄積は、同じく田中に師事した阿部宗明 (1911–1996)、さらに富山一郎に師事した富永義昭 (1969–1994) によって引き継がれてきた。しかしながら、1990 年代中旬以降は正規のコレクション管理者が不在となり、それ以降は第一および第三著者によってボランティアとしてコレクションの管理が続けられている。現在に至るまでに ZUMT コレクションには 800 以上の模式標本 (300 種以上) を含む約 63,000 標本が登録されており、その大部分は 1890 年代から 1939 年に田中が退官するまでの約 50 年間に収集されたものである。ただし、ZUMT コレクションは 100 年以上の歴史のなかで、関東大震災、太平洋戦争、3 度にわたる標本庫の移動などによって標本の一部が失われおり、田中だけでなく、富山や阿部が記載した種も含めてタイプやその他の標本が発見できないこともしばしばある。

田中茂穂は日本において近代的な魚類の研究をおこなった初めの人物であり、生涯に 177 種の新種を記載した。これらのうち 124 種は、1911 年から 1930 年にかけて出版された「日本産魚類図説」ならびに 1915 年から 1918 年にかけて出版された「日本産魚類の○○新種 (動物学雑誌)」のなかで記載されている。前者については、タイプ標本と判断できる記載が明示されている場合が多いものの、後者についてはタイプ番号等の情報がなく、どの標本がタイプであるべきか、といった議論がなされないまま今に至る例も多い。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ウナギ目魚類についてまとめたものである。

Materials and Methods

The “available” type specimens of Anguilliformes 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 に所在するウナギ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）記載されたウナギ目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：備考で引用した印刷物や種の現状に関する根拠。種ごとに示した。

Type specimens of Anguilliformes in ZUMT

Based on the original descriptions, tags on the specimens, and the ZUMT specimen ledger, type specimens of 15 species of Anguilliformes in five families, including 11 holotypes, three syntypes, and nine paratypes, were purported to be in the ZUMT collection. Seven holotypes and seven paratypes 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ウナギ目魚類標本には 5 科 15 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 11 標本、シンタイプ 3 標本、パラタイプ 9 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 7 標本、パラタイプ 7 標本である。

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Anguilliformes ウナギ目

Anguillidae ウナギ科

Anguilla remifera Jordan & Evermann, 1902

Original description: Jordan and Evermann (1902): 325, fig. 7.

Jordan, D. S. and Evermann, B. W. 1902. Notes on a collection of fishes from the island of Formosa. Proceedings of the United States National Museum, 25 (1289): 315–368.

Holotype (lost): ZUMT uncatalogued, Hokoto [Pengfu], Taiwan.

Remarks: Although the original description states, regarding the type specimen, "One specimen from Hokoto of Formosa, No. 12064 (70), 18.5 inches long, was returned to Imperial University", "No. 12064" was not a ZUMT registration number. Furthermore, no specimens in ZUMT matched the description of the holotype. The collection locality, written as "Hokoto" in the original description (Jordan and Evermann 1902), was believed to be Hokoto [Taipei City] by Ho and Shao (2011). However, "Hokoto" is the Japanese name for the Pengfu Islands, further evidence of the correct locality having been given by Jordan and Evermann (1902), who noted that Hokoto was also referred to as "Pescadores", another name for Pengfu.

原記載では、「One specimen from Hokoto of Formosa, No. 12064 (70), 18.5 inches long, was returned to Imperial University」と記されている。この「標本 No. 12064」は ZUMT コレクションの登録番号ではなく、また、記載に一致するホロタイプとなるべき標本は確認できなかった。原記載に標本の採集場所として書かれている"Hokoto"は、Ho and Shaw (2011)により台北市の"Hokuto"であるとされている。しかし、"Hokoto"は澎湖諸島の日本名であり、Jordan and Evermann (1902)においても"Hokoto"は“Pescadores (=澎湖諸島の別名)”であることが明記されている。

Current status: Synonym of *Anguilla japonica* Temminck & Schlegel, 1846 ニホンウナギ
Ege, V. 1939. A revision of the genus *Anguilla* Shaw. A systematic, phylogenetic and geographical study. Dana Report, 16: 1–257, pls. 1–6.

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.

Muraenidae ウツボ科

Gymnothorax neglectus Tanaka, 1911 ミゾレウツボ

Original description: Tanaka (1911): 28, pl. 7 (fig. 24).

田中茂穂. 1911. 日本産魚類図説, 2: 19–34, pls. 6–10. (Tanaka, S. 1911. Figures and descriptions of the fishes of Japan including Riukiu Islands, Bonin Islands, Formosa, Kurile Islands, Korea, and Southern Sakhalin, 2: 19–34, pls. 6–10. [In Japanese and English])

Holotype (available): ZUMT 2165, Keelung, Taiwan, collected by Masamitsu Ooshima. (基隆、台湾、大島正満採集)

Remarks: The original description specifies ZUMT 2165 as type. In addition, No. 2165 in the ZUMT specimen ledger was recorded as "*Gymnothorax neglectus* n. sp. Type". The specimen also had two cloth tags - "2165" and "*Gymnothorax neglectus* n. sp. Type". Although Böhlke and Smith (2002: 130) listed the specimen as "NSMT 2165" in their type catalog for Indo-Pacific Muraenidae, the correct catalog number of the holotype is ZUMT 2165.

原記載は ZUMT 2165 をタイプに指定している。ZUMT 標本台帳の 2165 には「*Gymnothorax neglectus* n. sp., Type」と記されており、また、この標本には「2165」と「*Gymnothorax neglectus* n. sp., Type」と書かれた布タグが付いていた。Böhlke and Smith (2002: 130)によるウツボ科のタイプカタログでは、本種のタイプ番号を「NSMT 2165」と誤記されているが、ホロタイプの登録番号は「ZUMT 2165」である。

Current status: Valid as *Gymnothorax neglectus* Tanaka, 1911 ミゾレウツボ

Böhlke, E. B. and Smith, D. G. 2002. Type catalogue of Indo-Pacific Muraenidae. Proceedings of the Academy of Natural Sciences of Philadelphia, 152: 89–172.

Chen, H.-M., Shao, K.-T. and Chen, C.-T. 1994. A review of the muraenid eels (family Muraenidae) from Taiwan with descriptions of twelve new records. Zoological Studies, 3 (1): 44–64.

Gymnothorax nivosus Tanaka, 1918 ミズレウツボ

Original description: Tanaka (1918): 51.

田中茂徳. 1918. 日本産魚類の二新種. 動物学雑誌, 30 (352): 51–52. (Tanaka, S. 1918. Two new species of Japanese fishes. Zoological Magazine Tokyo, 30 (352): 51–52. [In Japanese])

Holotype (lost): ZUMT 8268, Nagasaki Market, Nagasaki Pref., Japan, collected by Ichiro Kaneko. (長崎市場、金子一狼採集)

Remarks: The original description included type specimen information as "total length 820 mm", "Nagasaki market, collected by Ichirou Kaneko", but did not record the specimen registration number. ZUMT 8268 was the only specimen for which the information in the ZUMT specimen ledger matched the scientific name, collection site and collector given in the original description, and was therefore determined to be holotype. Unfortunately, however, that specimen has not been located at this time.

原記載には「全長 820 ミリ」、「長崎市場、金子一狼氏採集」とある。ZUMT 標本台帳に「*Gymnothorax nivosus*, n. sp.」と「金子一狼 (長崎)」と記述された ZUMT 8268 は、学名、採集地と採集者が一致する唯一の標本である。標本 ZUMT 8268 をこの種のアロタイプと判断した。ただし残念ながら、現時点で ZUMT 8628 は確認できない。

Current status: Synonym of *Gymnothorax eurostus* (Abbott, 1860)

Smith, D. G. 2012. A checklist of the moray eels of the world (Teleostei: Anguilliformes: Muraenidae). Zootaxa, 3474: 1–64.

Böhlke, E. B. and Smith, D. G. 2002. Type catalogue of Indo-Pacific Muraenidae. Proceedings of the Academy of Natural Sciences of Philadelphia, 152: 89–172.

Gymnothorax wakanourae Tanaka, 1908

Original description: Tanaka (1908): 24, pl. 2 (fig. 4).

Tanaka, S. 1908. Notes on some Japanese fishes, with descriptions of fourteen new species. Journal of the College of Science. Imperial University, Tokyo, 23 (7): 1–54, pls. 1–4.

Holotype (lost): ZUMT 956, Wakanoura, Wakayama Pref., Kii Penn. Japan, collected by K. Nakanishiki.

Remarks: The original description specified ZUMT 956 as type. However, the ZUMT specimen ledger recorded only the scientific name for No. 956, and the specimen could not be confirmed. Although Böhlke and Smith (2002: 130) listed the specimen as "TIU 956" in their type catalog for Indo-Pacific Muraenidae, the correct catalog number of the holotype is ZUMT 956.

原記載は ZUMT956 をタイプに指定している。ZUMT 標本台帳の ZUMT 956 には学名以外、記述がない。また、現時点で ZUMT 956 は確認できない。Böhlke and Smith (2002: 154)のウツボ科のタイプカタログでは、本種のホロタイプの標本番号が「TIU 956」とされているが、「ZUMT 956」の誤記である。

Current status: Synonym of *Gymnothorax eurostus* (Abbott, 1860)

Böhlke, E. B. and Smith, D. G. 2002. Type catalogue of Indo-Pacific Muraenidae. Proceedings of the Academy of Natural Sciences of Philadelphia, 152: 89–172.

Smith, D. G. 2012. A checklist of the moray eels of the world (Teleostei: Anguilliformes: Muraenidae). Zootaxa, 3474: 1–64.

Gymnothorax ypsilon Hatooka & Randall, 1992 オキノシマウツボ

Original description: Hatooka and Randall (1992): 183, figs. 1–2.

Hatooka, K. and Randall, J. E. 1992. A new moray eel (*Gymnothorax*: Muraenidae) from Japan and Hawaii. Japanese Journal of Ichthyology, 39 (3): 183–190.

Paratypes (available): ZUMT 55591 (1), ZUMT 55594 (1), off Nii-jima Island, Izu Islands (34°26.5' N, 139°10.0' E–34°26.8' N, 139°10.8' E), longline in depths of 120–146 m, collected by Hiroshi Senou, 30 Sept. 1986.

Current status: Valid as *Gymnothorax ypsilon* Hatooka & Randall, 1992 オキノシマウツボ
Smith, D. G. 2012. A checklist of the moray eels of the world (Teleostei: Anguilliformes: Muraenidae). Zootaxa, 3474: 1–64.

Strophidon ui Tanaka, 1918 タケウツボ

Original description: Tanaka (1918): 52.

田中茂穂. 1918. 日本産魚類の二新種. 動物学雑誌, 30 (352): 51–52. (Tanaka, S. 1918. Two new species of Japanese fishes. Zoological Magazine Tokyo, vol. 30 (352): 51–52. [In Japanese])

Holotype (lost): ZUMT uncatalogued, Tanabe, Kii Penn. Japan, collected by Nuizo Ui. (紀伊國田濱 [和歌山県田辺市]、宇井縫蔵採集)

Remarks: No record of this scientific name exists in the ZUMT specimen ledger, nor any supportive information identifying the collection locality or collector. No examples of this species were found in the ZUMT collection.

ZUMT 標本台帳に本種の学名「*Strophidon ui*」や採集場所「紀伊國田濱 [和歌山県田辺市]」、採取者「宇井縫蔵」に関する記述がない。ZUMT コレクションに、この種に該当する標本は確認できなかった。

Current status: Valid as *Strophidon ui* Tanaka, 1918 タケウツボ

Hibino, Y., Satapoomin, U. and Kimura, S. 2017. A new species of the genus *Diaphenchelys* (Anguilliformes: Muraenidae) from Thailand. *Ichthyological Research*, 64 (4): 458–463.

Prokofiev, A. M. 2020. New moray eel species of *Strophidon* genus (Muraenidae) from Vietnam. *Journal of Ichthyology*, 60 (2): 129–134.

Synaphobranchidae

ホラアナゴ科

Gymnosimenchelys leptosomus Tanaka, 1908

Original description: Tanaka (1908): 2, pl. 2 (fig. 2).

Tanaka, S. 1908. Notes on some rare fishes of Japan, with descriptions of two new genera and six new species. *Journal of the College of Science. Imperial University, Tokyo*, 23 (13): 1–24, pls. 1–2.

Syntypes (lost): ZUMT 1855 (3), off Misaki (Sagami Bay), Kanagawa Pref., Japan, depth 600 meters. Jan. Feb. 10, 1902, Collected by Kumakichi Aoki.

Remarks: In the original description, the largest individual (“Sample A”) of three specimens, all registered under “ZUMT 1855”, was designated as “type”. The ZUMT specimen ledger similarly records the three specimens as comprising ZUMT 1855. Accordingly, "Sample A" should be considered as the holotype of the species, and "Samples B and C" as paratypes. However, none of these specimens could be confirmed.

原記載では、3 標本中の最大の個体をタイプに指定し ZUMT 1855 をこれらの登録番号とした。測定表の 3 標本のうち標本 A には「Type」と記され、標本 B と C にはない。ZUMT 標本台帳にも ZUMT 1855 は 3 標本とある。以上のことから、標本 A をホロタイプ、標本 B と C をパラタイプと判断できる。しかし現時点で、ZUMT 1855 の 3 標本は確認できていない。

Current status: Synonym of *Simenchelys parasitica* Gill, 1879 コンゴウアナゴ

Robins, C. H. and Robins, C. R. 1989. Family Synaphobranchidae. Pp. 207–253. In: Böhlke, E. B. (ed) *Fishes of western north Atlantic*, part 9, vol. 1. *Memoirs of the Sears Foundation of Marine Research*, Yale University, New Haven.

Synaphobranchus taketae Tanaka, 1916 オキハモ

Original description: Tanaka (1916): 257.

田中茂穂. 1916. 日本産魚類の二新種. *動物学雑誌*, 28 (333): 257–258. (Tanaka, S. 1916. Two new species of Japanese fishes. *Zoological Magazine Tokyo*, 28 (333): 257–258. [In Japanese])

Holotype (available): ZUMT 55055, Rhikuzen, Miyagi Pref. (?), [640 m (350 hiro) deep; Feb. 1914]; collected by Miyagi Fishery Station. (宮城県水産試験場採集)

Remarks: Although no specimen was recorded with this scientific or common name in the ZUMT specimen ledger, a specimen with two cloth tags - "Miyagi Prefectural Fisheries Experimental Station, Okihamo, 640 m (350 hiro), February 1914" and "Sketch No. 302, Okihamo" – was found amongst the unregistered specimens in ZUMT. This specimen was considered to be the holotype of *Synaphobranchus taketae* Tanaka, 1916, and reregistered as ZUMT 55055, accordingly.

ZUMT 標本台帳には、この学名や和名などに一致する標本はなかった。しかし、未登録標本のなかに「宮城県水産試験場 オキハモ、350 尋 大正四年二月」と「写生番号 302 号、オキハモ」と書かれた 2 つの布タグが付けられた標本があった。この標本を *Synaphobranchus taketae* Tanaka, 1916 のホロタイプと判断し、ZUMT 55055 として登録した。

Current status: Synonym of *Synaphobranchus affinis* Günther, 1877 ホラアナゴ

Robins, C. H. and Robins, C. R. 1989. Family Synaphobranchidae. Pp. 207–253. In: Böhlke, E. B. (ed) Fishes of western north Atlantic, part 9, vol. 1. Memoirs of the Sears Foundation of Marine Research, Yale University, New Haven.

Congridae

アナゴ科

Gorgasia hawaiiensis Randall & Chess, 1980

Original description: Randall and Chess (1980): 19, figs. 1–3.

Randall, J. E. and Chess, J. R. 1980. A new species of garden eel (Congridae: Heterocongrinae) of the genus *Gorgasia* from Hawaii. Pacific Science, 33 (1): 17–23.

Paratypes (available): ZUMT 54065 (1), 100 meters north of Waawaa Point, south of Puako, Kona coast of Hawaii Island, Hawaiian Islands, depth 18 meters, rotenone, collected by Randall, J. E. and Chess, J. R., 10 Aug. 1969.

Current status: Valid as *Gorgasia hawaiiensis* Randall & Chess, 1980

Emily D., Foster, M. S. Rice, M. R., Cailliet, G. M., Yoklavich, M. M. and Hamilton, S. L. 2017. Natural history observations of Hawaiian Garden Eels, *Gorgasia hawaiiensis* (Congridae: Heterocongrinae), from the island of Hawai'i. Pacific Science, 71 (2): 135–147.

Gorgasia japonica Abe, Miki & Asai, 1977 シンジュアナゴ

Original description: Abe et al. (1977a): 1, pl. 1 (fig. 2).

Abe, T., Miki, M. and Asai, M. 1977a. Description of a new garden eel from Japan. UO (Japanese Society of Ichthyologists), 28: 1–8.

Holotype (available): ZUMT 53977, off Utsuki (33°07'31" N, 139°41'18" E), Hachijo-kojima Island, Japan, collected by Makoto Miki and Minoru Asai, 9 May 1976.

Paratypes (available): 4 specimens, ZUMT 53978 (1), ZUMT 53979 (1), ZUMT ABE 17532 (1), ZUMT ABE 17198 (1), same data as holotype.

Remarks: Although the original description of *G. japonica* was based partly on specimens in Abe's personal collection, Abe et al. (1977a) indicated that "Thirteen specimens, 542–990 mm in total length" and "Some of them will be deposited to Rijksmuseum van Natuurlijke Historie, Leiden,... CAS, and a few others if they are willing to receive. Exact date of the specimens and their destination will be mentioned elsewhere in the near future". Abe et al. (1977b) secondly shown the paratypes were transferred to seven institutions as follows: BMNH, BPBM, USNM, ANSP, RMNH, CAS-ICH, SMF. The correspondence between the previous ABE number and the catalog number in each institution are shown as follows: BMNH 1978.4.14.117 [previously ABE 17194] (1), same data as holotype; BPBM 21149 [previously ABE 17533] (1), USNM 218468 [previously ABE 17534] (1), ANSP 139242 [previously ABE 17535] (1), RMNH 27691 [previously ABE 17536] (1), CAS-ICH 40744 [previously ABE 17538] (1), SMF 14310 [previously ABE number unknown] (1), same data as holotype with collection date 10 July 1976. Although the locations of remaining 3 further paratypes from the ABE collection are unknown, one of them is SMF 14310: ABE 17530 (1), ABE 17531 (1), ABE 17537 (1), same data as holotype with collection date 10 July 1976.

Gorgasia japonica の原記載の一部は阿部の個人コレクションに基づいているが、Abe et al. (1977a)は記載のなかで「13 標本、全長 542–990 mm」「それらの標本の一部は Rijksmuseum van Natuurlijke Historie, Leiden や CAS に寄託し、その他は受け取りが可能であれば他の機関に寄託する予定である。」とした。その後、Abe et al. (1977b)はこれらのパラタイプを7つの機関 (BMNH、BPBM、USNM、ANSP、RMNH、CAS-ICH、SMF) に移管したことを示した。これらの元 ABE 標本と移管先機関との対応は以下の通り : MNH 1978.4.14.117 [以前は ABE 17194] (1)、データはホロタイプと同じ; BPBM 21149 [以前は ABE 17533] (1)、USNM 218468 [以前は ABE 17534] (1)、ANSP 139242 [以前は ABE 17535] (1)、RMNH 27691 [以前は ABE 17536] (1)、CAS-ICH 40744 [以前は ABE 17538] (1)、SMF 14310 [ABE 番号は不明] (1)、データはホロタイプと同じ、採集日は 10 July 1976。なお、以下の ABE コレクション 3 標本は所在不明であるが、そのうち 1 標本は SMF 14310 が該当する。ABE 17530 (1)、ABE 17531 (1)、ABE 17537 (1)、データはホロタイプと同じ、採集日は 10 July 197

Current status: Valid as *Gorgasia japonica* Abe, Miki & Asai, 1977 シンジュアナゴ

Abe, T., Sugiura, H. and Nguyen, T.-T. 1977b. Garden eels from Japan. UO (Japanese Society of Ichthyologists), 30: 85–88, pls. II–III.

Shao, K.-T. 1990. Garden eels from Taiwan, with description of a new species. UO (Japanese Society of Ichthyologists), 40: 1–16.

***Gorgasia taiwanensis* Shao, 1990**

Original description: Shao (1990): 4, figs. 2–6.

Shao, K.-T. 1990. Garden eels from Taiwan, with description of a new species. Uo (Japanese Society of Ichthyologists), 40: 1–16.

Paratype (available): ZUMT 56359 [previously ASIZP 056509] (1), Hengchun, southern Taiwan.

Current status: Valid as *Gorgasia taiwanensis* Shao, 1990 アキアナゴ

Abe, T. 1990. Records of the fifth species of Garden eel from Japanese waters. Uo (Japanese Society of Ichthyologists), 40: 17–20.

Ho, H.-C., McCosker, J. E., Smith, D. G. and Shao, K.-T. 2015. Introduction to the systematics and biodiversity of eels (orders Anguilliformes and Saccopharyngiformes) of Taiwan. Zootaxa, 4060 (1): 5–18.

Ophichthidae

ウミヘビ科

***Myrichthys aki* Tanaka, 1917 アキウミヘビ**

Original description: Tanaka (1917): 458, pl. 128 (figs. 358–360).

田中茂穂. 1917. 日本産魚類図説, 26: 455–474, pls. 126–130. (Tanaka, S. 1917. Figures and descriptions of the fishes of Japan including Riukiu Islands, Bonin Islands, Formosa, Kurile Islands, Korea, and Southern Sakhalin, 26: 455–474, pls. 126–130. [In Japanese and English])

Holotype (available): ZUMT 7612, Aki City (Tosa Bay), Kochi Pref., Japan, collected by Syoma Ueta. (土佐國安藝 [安芸市]、上田庄馬採集)

Remarks: The original description designated ZUMT 7612 as “type”, the specimen having two cloth tags - "7612" and "Sketch No. 311". No other specimens in the ZUMT specimen ledger matched this species, and ZUMT 7612 is recognized as the holotype.

原記載は ZUMT 7612 をタイプに指定している。標本には、「7612」と「写生 311 号」の 2 つの布タグが付いている。ZUMT コレクションに、ZUMT 7612 以外に記載に一致する標本はない。

Current status: Synonym of *Myrichthys maculosus* (Cuvier, 1816) モヨウモンガラドオシ
McCosker, J. E. and Rosenblatt R. H. 1993. A revision of the snake eel genus *Myrichthys* (Anguilliformes: Ophichthidae) with the description of a new eastern Pacific species. Proceedings of the California Academy of Sciences, 48 (8): 153–169.

Ophichthus miyamotoi Tanaka, 1913 モヨウウツボ

Original description: Tanaka (1913): 195, pl. 52 (figs. 199–201).

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, 11: 187–198, pls. 51–55. [In Japanese and English])

Holotype (available): ZUMT 2923, Ushuku (presently Ushuku, Kasari), Ooshima (presently Amami-Oshima Island), Kagoshima Pref., Japan. 7 Sept. 1909, collected by Kichizo Miyamoto. (鹿児島県奄美大島宇宿村、明治 43 年 9 月 7 日採集、鹿児島県大島農学校 宮本吉蔵寄贈)

Remarks: The original description designated a single specimen “ZUMT 2923” as holotype. In addition, the notation "*Ophichthus miyamotoi* n. sp." was added to ZUMT 2923 in the ZUMT specimen ledger, in Tanaka’s handwriting.

原記載は 1 標本 ZUMT2923 をタイプに指定している。ZUMT 標本台帳には、「*Ophichthus miyamotoi* n. sp.」と田中自筆で加筆があった。

Current status: Synonym of *Myrichthys maculosus* (Cuvier, 1816) モヨウモンガラドオン
McCosker, J. E. and Rosenblatt, R. H. 1993. A revision of the snake eel genus *Myrichthys* (Anguilliformes: Ophichthidae) with the description of a new eastern Pacific species. Proceedings of the California Academy of Sciences, 48 (8): 153–169.

Ophichthus roseus Tanaka, 1917 バラヘビウナギ

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])

Holotype (available): ZUMT 7485, Tokyo Market, Japan. (東京市場)

Paratype (lost): ZUMT 7486, Tokyo Market, Japan.

Remarks: In the ZUMT specimen ledger, specimens recorded as ZUMT 7485 and ZUMT 7486 had scientific names and collection areas matching the original description. In addition, ZUMT 7485 was annotated “Type” in Tanaka’s handwriting. That specimen is therefore considered to be the holotype, and ZUMT 7486, the paratype. Unfortunately, the latter has not been located at this time. Tanaka (1927) later redescribed and illustrated the holotype of this species as *Ophichthus urolophus* (Temminck & Schlegel, 1846).

ZUMT 標本台帳には原記載の情報と学名および産地が一致した標本「ZUMT 7485、7486」の連番があり、ここには田中直筆で「7458 Type」の加筆があった。このため ZUMT 7485 をホロタイプ、ZUMT 7486 をパラタイプと判断した。ただし、残念ながらパラタイプ ZUMT 7486 は確認できていない。田中 (1927) は本種と本種のホロタイプを *Ophichthus urolophus* (Temminck and Schlegel) として報告している。

Current status: Synonym of *Ophichthus urolophus* (Temminck & Schlegel, 1846) ソソウミヘビ

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, 41: 785–808, pls. 170–171. [In Japanese and English])

McCosker, J. E. 1977. The osteology, classification, and relationships of the eel family Ophichthidae. Proceedings of the California Academy of Sciences (Series 4), 41 (1): 1–123.

Sphagebranchus cinctus Tanaka, 1908

Original description: Tanaka (1908): 4, pl. 1 (figs. 4a–b).

Tanaka, S. 1908. Notes on some rare fishes of Japan, with descriptions of two new genera and six new species. Journal of the College of Science. Imperial University, Tokyo, 23 (13): 1–24, pls. 1–2.

Holotype (available, in poor condition): ZUMT 1547, Ishigaki-jima Island, Okinawa Pref., Japan, collected by G. Ogawa.

Remarks: In the original description, a single specimen ZUMT 1547 was designated as holotype. In the ZUMT specimen ledger, the entry for ZUMT 1547 was annotated "*Sphagebranchus cinctus* n. sp. Type" in Tanaka's handwriting.

原記載は、1 標本 ZUMT 1547 をタイプに指定している。ZUMT 標本台帳の ZUMT 1547 には、「*Sphagebranchus cinctus* n. sp. Type」と田中直筆の加筆があった。

Current status: Synonym of *Leiuranus semicinctus* (Lay & Bennett, 1839) ソラウミヘビ