

A list of syngnathid (Teleostei) specimens deposited in the Department of Zoology, The University Museum, The University of Tokyo

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Abstract

The syngnathid specimens deposited in the Department of Zoology, The University Museum, The University of Tokyo (ZUMT) comprise 279 cataloged lots, including 1027 individuals representing 20 genera with 44 species. The holotype of *Hippocampus takakurae* Tanaka, 1916 was confirmed as extant, although the holotype of *Hippichthys amakusensis* Tomiyama, 1972 was not found.

Introduction

The family Syngnathidae includes 57 genera, with more than 300 species (Dawson, 1985; Fricke et al., 2024), of which at least 70 are distributed in Japan (Motomura, 2024).

This catalog presents information obtained from both specimens and collection records of the family Syngnathidae in the Department of Zoology, The University Museum, The University of Tokyo (ZUMT). Most of the specimens were collected in Japan.

Materials and Methods

The syngnathid specimens deposited in the Department of Zoology, The University Museum, The University of Tokyo (abbreviated as ZUMT) were identified following Dawson (1985), Lourie et al. (2004), Senou (2013), Yuki et al. (2023), and Yuki and Motomura (2024). Counts and measurements followed Dawson (1985) and Lourie et al. (2004). The standard lengths of specimens were generally measured for each, although only of the largest and smallest specimens when a large number were included in a single lot. In cases where accurate counts and measurements of specimens were not possible due to damage, "+" is appended. Collection data of specimens are omitted if the same as that for the previous specimen.

Collection of Syngnathidae in ZUMT

A total of 1,021 syngnathid specimens, representing 44 species in 20 genera, were located in the ZUMT collection. The holotype of *Hippocampus takakurae* Tanaka, 1916 was verified, whereas the holotype of *Hippichthys amakusensis* Tomiyama, 1972 was not located. Three species, *Acentronura tentaculata* Günther, 1870, *Hippocampus sindonis* Jordan and Snyder, 1901, and *Solegnathus (Solegnathus) lettiensis* Bleeker, 1860 had been collected from areas outside their recognized distribution to date.

Species Accounts

Syngnathidae ヨウジウオ科

Acentronura Kaup, 1853 タツノイトコ属

Acentronura gracilissima (Temminck and Schlegel, 1850) タツノイトコ

[JAPAN]

Chiba Pref.

ZUMT 22676: 73.5 mm SL, Tateyama Bay, Apr. 1914, coll. by U. Takakura.

Acentronura tentaculata Günther, 1870 タツノハトコ

[JAPAN]

Nagasaki Pref.

ZUMT 33563: 69.5 mm SL, donated by I. Kaneko.

Locality unknown

ZUMT 34734: 65.5 mm SL, probably Suruga Bay, Numazu, Shizuoka Pref., Japan, donated by S. Yamamoto.

Remarks: Previous specimen-based records of this species from Japan included the Kagoshima mainland, and Ishigaki-jima and Iriomote-jima islands (Senou et al., 1993; Yuki and Motomura, 2024). The specimen collected from Nagasaki Prefecture (ZUMT 33563) represents the first record of *A. tentaculata* from the prefecture and the northernmost record for the species.

Coelonotus Peters, 1855 イッセンヨウジ属

Coelonotus leiaspis (Bleeker, 1854) イッセンヨウジ

[JAPAN]

Nagasaki Pref.

ZUMT 13493: 100.4 mm SL, Kino River, 22 July 1924, coll. by I. Hoshino.

Wakayama Pref.

ZUMT 39182: 97.6 mm SL, Ukitsu River, coll. by S. Tanaka.

Okinawa Pref.

ZUMT 58105: 147.0 mm SL, ZUMT 58106: 135.5 mm SL, ZUMT 58107: 137.2 mm SL, Nakama River, Iriomote-jima island, 9 July 1988, coll. by H. Senou and M. Aizawa; ZUMT 58142: 126.7 mm SL, ZUMT 58143: 146.3 mm SL, Nakama River, Iriomote-jima island, 10 July 1988, coll. by H. Senou and M. Aizawa; ZUMT 60065: 97.2 mm SL, Urauchi River, Iriomote-jima island, 17 Aug. 1989, coll. by H. Senou and M. Aizawa.

Locality unknown

ZUMT 8749: 105.5 mm SL, coll. by T. Nekoyama.

Corythoichthys Kaup, 1853 イシヨウジ属

Corythoichthys amplexus Dawson and Randall, 1975 オビイシヨウジ

[JAPAN]

Okinawa Pref.

ZUMT 60409: 80.8 mm SL, Amitori Bay, Iriomote-jima island, 24 Aug. 1989, coll. by M. Aizawa, H. Senou, T. Suzuki, and T. Uryu.

Corythoichthys flavofasciatus (Rüppell, 1838) キシマイシヨウジ

[JAPAN]

Kagoshima Pref.

ZUMT 29703: 56.5 mm SL, ZUMT 29704: 67.3 mm SL, Tokuno-shima island, 10 Sept. 1910, donated by Miyashita.

Corythoichthys haematopterus (Bleeker, 1851) イシヨウジ

[JAPAN]

Okinawa Pref.

ZUMT 5456: 120.3 mm SL, Ishigaki-jima island, Apr. 1899; ZUMT 22766: 104.5+ mm SL.

[PHILIPPINES]

ZUMT 31855: 99.7 mm SL, Boeton Is., Sept. 1935–Jan. 1936, coll. by R. Wada; ZUMT 68662: 120+ mm SL, Basilan Island, coll. by U. Yamamura and Y. Yamamura.

[PALAU]

ZUMT 68649: 152.1 mm SL, ZUMT 68650: 151.3 mm SL, Palau Islands, Aug. 1936–May 1937, coll. by T. Abe.

Corythoichthys intestinalis (Ramsay, 1881) リュウキュウイシヨウジ

[USA]

ZUMT 26190: 103.2+ mm SL, Saipan, coll. by A. Nakajima.

[PALAU]

ZUMT 31972: 110.9 mm SL, July 1935; ZUMT 55315: 80.3 mm SL, Aug. 1935, coll. by Haneda and Yada; ZUMT 68651: 102.7 mm SL, ZUMT 68652: 112.3–114.7 mm SL (2 specimens), ZUMT 68658: 98.3+ mm SL, Palau Islands, Aug. 1936–May 1937, coll. by T. Abe.

Corythoichthys polynotatus Dawson, 1977 オボロイシヨウジ

[PALAU]

ZUMT 68653: 123.3 mm SL, ZUMT 68654: 105.1 mm SL, ZUMT 68655: 87.5 mm SL, ZUMT 68656: 75.9 mm SL, ZUMT 68657: 63.8 mm SL, Palau Islands, Aug. 1936–May 1937, coll. by T. Abe.

Cosmocampus Dawson, 1979 ヒナヨウジ属

Cosmocampus banneri (Herald and Randall, 1972) ヒナヨウジ

[JAPAN]

Tokyo Metropolitan Area

ZUMT 68667: 53.0 mm SL, Miyanohama, Chichi-jima island, Ogasawara Islands, 10 July 2004, coll. by H. Tachikawa.

Doryichthys Kaup, 1856

Doryichthys boaja (Bleeker, 1850)

[MALAYSIA]

ZUMT 62957: 332.8+ mm SL, ZUMT 62958: 294.8+ mm SL, Borneo I., Sarawak, donated by T. Harrison before 1961.

Doryichthys deokhatoides (Bleeker, 1854)

[MALAYSIA]

ZUMT 62959: 118.8+ mm SL, Borneo I., Sarawak, donated by T. Harrison before 1961.

Doryrhamphus Kaup, 1856 ヒバシヨウジ属

Doryrhamphus (Doryrhaphus) excisus excisus Kaup, 1856 ヒバシヨウジ

[USA]

ZUMT 57568: 43.6 mm SL, Hawaiian Is., 10 Apr. 1986, coll. by J. E. Randall.

Doryrhamphus (Doryrhaphus) negrosensis negrosensis Herre, 1934 セスジヨウジ

[JAPAN]

Okinawa Pref.

ZUMT 60738: 9.0–21.1 mm SL (3 specimens), Kabira Bay, Ishigaki-jima island, 29 Aug. 1989, coll. by H. Senou and M. Aizawa.

Doryrhamphus (Doryrhaphus) japonicus Araga and Yoshino, 1975 ノコギリヨウジ

[JAPAN]

Wakayama Pref.

ZUMT 68659: 65.6+–78.7+ mm SL, Shirahama, coll. by Suma Aquarium.

Doryrhamphus (Dunckerocampus) dactyliophorus Bleeker, 1853 オイランヨウジ

[JAPAN]

Okinawa Pref.

ZUMT 60470: 86.5 mm SL, Amitori Bay, Iriomote-jima island, 24 Aug. 1989, coll. by M. Aizawa, H. Senou, T. Suzuki, and T. Uryu.

[PALAU]

ZUMT 68647: 119.6 mm SL, Palau Islands, Aug. 1936–May 1937, coll. by T. Abe.

Festucalex Whitley, 1931 アマクサヨウジ属

Festucalex amakusensis (Tomiyama, 1972) アマクサヨウジ

[JAPAN]

Nagasaki Pref.

ZUMT 2465: 74.2 mm SL, Aug. 1909.

Remarks: The holotype of *Hippichthys amakusensis* Tomiyama, 1972 was not located in ZUMT, and is most likely to have been lost during its transfer from Aitsu Marine Biological Station to ZUMT.

Halicampus Kaup, 1856 ウミヤッコ属
Halicampus brocki (Herald, 1953) ノコギリウミヤッコ

[JAPAN]

Tokyo Metropolitan Area

ZUMT 68668: 46.0 mm SL, Ani-jima island, Ogasawara Islands, 6 Oct. 2001, coll. by H. Tachikawa and M. Inaba.

Halicampus grayi Kaup, 1856 ウミヤッコ

[JAPAN]

Nagasaki Pref.

ZUMT 27123: 112.8 mm SL, donated by I. Kaneko.

Kagoshima Pref.

ZUMT 26943: 105.4 mm SL.

Locality unknown

ZUMT 7358: 70.8 mm SL.

Halicampus macrorhynchus Bamber, 1915 タツウミヤッコ

[JAPAN]

Nagasaki Pref.

ZUMT 22675: 121.7 mm SL, Tateyama Bay, Apr. 1914, coll. by U. Takakura.

Halicampus punctatus (Kamohara, 1952) ホシヨウジ

[JAPAN]

Kanagawa Pref.

ZUMT 44907: 121.7 mm SL; ZUMT 50985: 96.8 mm SL, 20 July 1952; ZUMT 50988: 101.1–101.3 mm SL (2 specimens), 3 Apr. 1935.

Hippichthys Bleeker, 1849 カワヨウジ属
Hippichthys (Hippichthys) cyanopilos (Bleeker, 1854) ハクテンヨウジ

[JAPAN]

Okinawa Pref.

ZUMT 58475: 58.3–69.7 mm SL (2 specimens), Amitori Bay, Iriomote-jima island, 14 July 1988, coll. by H. Senou and M. Aizawa; ZUMT 60709: 78.3 mm SL, Kabira Bay, Ishigaki-jima island, 29 Aug. 1989, coll. by M. Aizawa, H. Senou, T. Uryu, and H. Masuda; ZUMT 60775: 75.4–82.1 mm SL (2 specimens), Sukuji beach, Ishigaki-jima island, 29 Aug. 1989, coll. by H. Senou and M. Aizawa; ZUMT 68872: 35.3 mm SL, Iriomote-jima island, coll. by R. Aonuma.

Hippichthys (Hippichthys) heptagonus Bleeker, 1849 アミメカワヨウジ

[JAPAN]

Okinawa Pref.

ZUMT 58541: 110.7 mm SL, Urauchi River, Iriomote-jima island, 15 July 1988, coll. by H. Senou and M. Aizawa;

ZUMT 67488, 89.9 mm SL, ZUMT 67489, 77.7 mm SL, Genka River, Okinawa-jima island, 18 Mar. 2024.

Hippichthys (Hippichthys) spicifer (Rüppell, 1838) カワヨウジ

[JAPAN]

Chiba Pref.

ZUMT 67348: 101.1 mm SL, ZUMT 67349: 90.2 mm SL, Shirako Port, 10 Sept. 2022, coll. by S. Makiguchi;
ZUMT 67365: 126.8 mm SL, Kaito River, 18 Dec. 2023, coll. by I. Fukuchi and T. Momose.

Okinawa Pref.

ZUMT 58344: 116.4 mm SL, ZUMT 58345: 102.3 mm SL, Yonada River, Iriomote-jima island, 13 July 1988, coll. by H. Senou and M. Aizawa; ZUMT 58540: 85.6–130.8 mm SL (5 specimens), Urauchi River, Iriomote-jima island, 15 July 1988, coll. by H. Senou and M. Aizawa; ZUMT 60124: 136 mm SL, Urauchi River, Iriomote-jima island, 18 Aug. 1989, coll. by H. Senou and M. Aizawa; ZUMT 60287: 118.1 mm SL, Yonada River, Iriomote-jima island, 20 Aug. 1989, coll. by M. Aizawa, H. Senou, T. Suzuki, and T. Uryu; ZUMT 60295: 117.9 mm SL, Yonada River, Iriomote-jima island, 20 Aug. 1989, coll. by H. Senou and M. Aizawa.

[TANZANIA]

ZUMT 65799: 91.5–121.6 mm SL (10 specimens), Dar es Salaam, 28 Aug. 1972.

Hippichthys (Parasyngnathus) penicillus (Cantor, 1849) ガンテンイシヨウジ

[JAPAN]

Nagasaki Pref.

ZUMT 57370: 83.4 mm SL, Dandou River, 22 Sept. 1987, coll. by H. Senou and T. Saruwatari.

Chiba Pref.

ZUMT 27579: 130.7 mm SL, ZUMT 27580: 135.5 mm SL, ZUMT 29410: 125.6 mm SL.

Tokyo Metropolitan Area

ZUMT 1340: 149.2 mm SL, Haneda; ZUMT 12754: 125.1 mm SL, ZUMT 12789: 120.4 mm SL.

Kanagawa Pref.

ZUMT 21032: 116.1 mm SL, ZUMT 21033: 160.4 mm SL, Sagami Bay, Misaki, Miura, 1930; ZUMT 68621: 60.2–94.9 mm SL (27 specimens), Sagami Bay, Misaki, Miura, 1942.

Aichi Pref.

ZUMT 6055: 158.1 mm SL, Nagoya.

Kagoshima Pref.

ZUMT 1131: 99.8 mm SL, 1 Apr. 1896, coll. by K. Mitsukuri and J. Hara; ZUMT 26945: 116.4 mm SL.

[TAIWAN]

ZUMT 12386: 165.0+ mm SL, Taipei, coll. by T. Aoki.

Locality unknown

ZUMT 7204: 118.0 mm SL, probably Ehime Pref., Japan, coll. by K. Otsuki; ZUMT 36000: 113.9 mm SL; ZUMT 48354: 130.2 mm SL, probably Nagasaki Pref. Japan, coll. by Fukue high school.

Hippocampus Rafinesque, 1810 タツノオトシゴ属
Hippocampus abdominalis Lesson, 1827

[ASUTRALIA]

ZUMT 68956: 261.2 mm SL, ZUMT 68957: 276.3 mm SL, Tasmania.

Hippocampus coronatus Temminck and Schlegel, 1850 タツノオトシゴ

[JAPAN]

Nagasaki Pref.

ZUMT 50392: 74.8 mm SL, Usukou, Oct. 1953, coll. by I. Tomiyama.

Miyagi Pref.

ZUMT 24571: 52.3 mm SL, Watanoha, 10 Dec. 1931, coll. by Y. Fukuda.

Locality unknown

ZUMT 68681: 138.0 mm SL, coll. by T. Abe.

Hippocampus histrix Kaup, 1856 イバラタツ

[JAPAN]

Wakayama Pref.

ZUMT 20230: 202.8 mm SL, Jan. 1920, coll. by N. Ui.

Kochi Pref.

ZUMT 19556: 207.3 mm SL, Susaki city, Oct. 1928, coll. by T. Kamohara.

Kagoshima Pref.

ZUMT 29699: 104.4 mm SL, Amami-oshima island, 30 Aug. 1910, donated by Miyashita.

[TAIWAN]

ZUMT 14847: 98.7 mm SL, Hairen, coll. by T. Aoki; ZUMT 35994: 159.0 mm SL, Tainan, donated by Yamagoe.

[PHILIPPINES]

ZUMT 31860: 137.1 mm SL, Boeton Is., Sept. 1935–Jan. 1936, coll. by R. Wada.

Locality unknown

ZUMT 5153: 79.5 mm SL; ZUMT 34150: 226.3 mm SL, probably Kochi Pref., Japan, Sept. 1919, coll. by Kochi Fisheries Research Station; ZUMT 68680: 125.4 mm SL, 1961, coll. by T. Abe; ZUMT 68683: 186.3 mm SL, ZUMT 68684: 200.2 mm SL, ZUMT 68685: 162.0 mm SL, ZUMT 68686: 133.5 mm SL, ZUMT 68687: 118.8+ mm SL.

Hippocampus kelloggi Jordan and Snyder, 1901 オオウミウマ

[JAPAN]

Kochi Pref.

ZUMT 19564: 182.6 mm SL, Okino-shima island, Aug. 1928, coll. by T. Kamohara.

Hippocampus kuda Bleeker, 1852 クロウミウマ

[JAPAN]

Tokyo Metropolitan Area

ZUMT 12777: 169.1 mm SL.

Okinawa Pref.

ZUMT 1062: 143.1 mm SL, Ishigaki-jima island.

Locality unknown

ZUMT 63767: 86.8 mm SL; ZUMT 68682: 151.1 mm SL, 1958, coll. by T. Abe.

Hippocampus mohnikei Bleeker, 1853 サンゴタツ

[JAPAN]

Nagasaki Pref.

ZUMT 26685: 49.7 mm SL, coll. by I. Kaneko; ZUMT 33543: 42.8 mm SL, donated by I. Kaneko.

Chiba Pref.

ZUMT 27565: 70.1 mm SL.

Tokyo Metropolitan Area

ZUMT 35996: 56.2 mm SL, Tokyo Bay.

Kanagawa Pref.

ZUMT 21345: 81.1 mm SL, Tomioka or Misaki, 1930, coll. by S. Fukuda.

Kagoshima Pref.

ZUMT 26947: 145.1 mm SL.

[CHINA]

ZUMT 68688: 47.8 mm SL, ZUMT 68689: 42.0 mm SL, East China Sea 2 June 1980, coll. by Y. Tominaga.

Locality unknown

ZUMT 26264: 69.8 mm SL, probably Yamaguchi Pref., Japan, coll. by Okikaze Junior High School; ZUMT 33932: 79.7 mm SL, ZUMT 33933: 76.5 mm SL, ZUMT 33934: 66.3 mm SL, ZUMT 33936: 93.0 mm SL, ZUMT 33937: 82.1 mm SL, probably Aichi Pref., Jpn, coll. by H. Niwa; ZUMT 35262: 66.9 mm SL, ZUMT 35264: 54.6 mm SL, probably Shizuoka Pref., Japan, donated by S. Araki.

Hippocampus sindonis Jordan and Snyder, 1901 ハナタツ

[JAPAN]

Kanagawa Pref.

ZUMT 68617: 53.4–114.2 mm SL (9 specimens), Sagami Bay, Misaki, Miura, 31 May 1911.

Nagasaki Pref.

ZUMT 43306: 58.6 mm SL.

Remarks: Previous Japanese records of the species included Sagami Bay, Izu-oshima island, Enshu-nada Sea, Mie Prefecture, Wakayama Prefecture, and Seto Inland Sea, Yamaguchi Prefecture (Senou, 2013; Han et al., 2017; Yoshigou, 2018). ZUMT 43306 represents the first record of *H. sindonis* from Nagasaki Prefecture.

Hippocampus trimaculatus Leach, 1814 タカクラタツ

(Fig. 1; Table 1)

[JAPAN]

Nagasaki Pref.

ZUMT 48274: 176.0 mm SL, Oct. 1953.

Chiba Pref.

ZUMT 22674: 199.0 mm SL, Hojyou, Tateyama, 1913, coll. by U. Takakura.

Kanagawa Pref.

ZUMT 4178: 183.6 mm SL, Misaki, 1914, coll. by I. Oga; ZUMT 57999: 111.0 mm SL, Hayakawa Fishing Port, 25 Nov. 1988, coll. by M. Aizawa.

Shizuoka Pref.

ZUMT 33001, 169.9 mm SL, ZUMT 33003, 146.6 mm SL, ZUMT 33004, 166.2 mm SL, ZUMT 33005, 138.0 mm SL, ZUMT 33006, 138.4 mm SL, Sagami Bay, Ajiro, Atami, 7 Dec. 1933, coll. by S. Tanaka.

Wakayama Pref.

ZUMT 9644: 166.3 mm SL, coll. by N. Ui; ZUMT 22452: 119.4 mm SL, coll. by N. Ui.

Kochi Pref.

ZUMT 19555: 138.4 mm SL, Oct. 1928, coll. by T. Kamohara.

Remarks: The holotype of *Hippocampus takakurae* Tanaka, 1916, a junior synonym of *Hippocampus trimaculatus* Leach, 1814, was considered to have been lost (Fricke et al., 2024). However, that specimen was located in ZUMT (ZUMT 22674).

Hippocampus sp.

[JAPAN]

Kanagawa Pref.

ZUMT 65299: 34.0+ mm SL, Sagami Bay, Misaki, Miura, stomach contents of *Neosebastes entaxis* Jordan and Starks, 1904 (ZUMT 2634).

Remarks: The specimen was in such poor condition that specific identification was impossible.

Ichthyocampus Kaup, 1853

Ichthyocampus sp.

[TANZANIA]

ZUMT 65798: 81.4 mm SL, Dar es Salaam, 28 Aug. 1972.

Remarks: ZUMT 65798 had a greater number of dorsal and pectoral-fin rays than *Ichthyocampus carce* (Hamilton, 1822), and may represent an undescribed species. It is tentatively listed here as *Ichthyocampus* sp.

Micrognathus Duncker, 1912 カンムリヨウジ属

Micrognathus andersonii (Bleeker, 1858) カンムウリヨウジ

[JAPAN]

Okinawa Pref.

ZUMT 58654: 37.8 mm SL, Kabira Bay, Ishigaki-jima island, 18 July 1988, coll. by H. Senou and M. Aizawa;

ZUMT 58693: 41.6 mm SL, Sukuji Beach, Ishigaki-jima island, 19 July 1988, coll. by H. Senou and M. Aizawa.

[PALAU]

ZUMT 68648: 49.7 mm SL, Palau Islands, Aug. 1936–May 1937, coll. by T. Abe.

Microphis Kaup, 1853 テングヨウジ属

Microphis (Lophocampus) retzii (Bleeker, 1856) タニヨウジ

[PHILIPPINES]

ZUMT 68661: 98.0–111.8 mm SL (3 specimens), Basilan Island, coll. by U. Yamamura and Y. Yamamura.

Microphis (Oostethus) brachyurus brachyurus (Bleeker, 1853) テングヨウジ

[TAIWAN]

ZUMT 12387: 156.0+ mm SL, Taipei, coll. by T. Aoki.

[PALAU]

ZUMT 68643: 167.5 mm SL, ZUMT 68644: 166.5 mm SL, ZUMT 68645: 174.2 mm SL, Palau Islands, Aug. 1936–May 1937, coll. by T. Abe.

Locality unknown

ZUMT 1138: 144.0 mm SL, 1892; ZUMT 63017: 104.7 mm SL.

Phoxocampus Dawson, 1977 ボウヨウジ属
Phoxocampus belcheri (Kaup, 1856) ボウヨウジ

[JAPAN]

Okinawa Pref.

ZUMT 27366, 55.9 mm SL, ZUMT 27367, 75.8 mm SL, ZUMT 27368, 52.4 mm SL, ZUMT 27369, 53.0 mm SL,
ZUMT 27370, 68.8 mm SL, ZUMT 27371, 52.8 mm SL, ZUMT 27372, 68.0 mm SL, ZUMT 27373, 47.9 mm
SL, Naha, 23 May 1900, coll. by Miyajima.

Phyllopteryx Swainson, 1839
Phyllopteryx taeniolatus (Lacepède, 1804)

[AUSTRALIA]

ZUMT 1802: 317.1 mm TL, ZUMT 68955: 371.7 mm TL, Tasmania.

Solegnathus Swainson, 1839 スミツキヨウジ属
Solegnathus (Solegnathus) lettiensis Bleeker, 1860 シンカイスミツキヨウジ

[JAPAN]

Kagoshima Pref.

ZUMT 21685: 297.0+ mm TL, Tanega-shima island, Mar. 1930, coll. by T. Kamohara.

Remarks: The previous specimen-based records of this species from Japan included the middle of the Okinawa Trough, and Kamikoshiki-sima island (Okamura, 1985; Yuki et al., 2023). ZUMT 21685 represents the first record of *Solegnathus (Solegnathus) lettiensis* from Tanega-shima island.

Syngnathoides Bleeker, 1851 トゲヨウジ属
Syngnathoides biaculeatus (Bloch, 1785) トゲヨウジ

[JAPAN]

Kanagawa Pref.

ZUMT 40297: 176.2 mm TL, Misaki, 16 Aug. 1909.

Hyogo Pref.

ZUMT 9148: 195.1 mm TL, Himeji, coll. by R. Abe and C. Sakamoto.

Kagoshima Pref.

ZUMT 21836: 207.0+ mm TL.

Okinawa Pref.

ZUMT 5448: 203.5 mm TL, Ishigaki-jima island, Apr. 1899.

[PHILIPPINES]

ZUMT 31856: 212.0 mm TL, Celebes, Sept. 1935–Jan. 1936, coll. by R. Wada; ZUMT 68660: 155.3–160.0+ mm
TL (2 specimens), Basilan Island, coll. by U. Yamamura and Y. Yamamura.

[PALAU]

ZUMT 42753: 189.2 mm TL, ZUMT 42754: 207.0+ mm TL, Palau Islands, coll. by Y. Haneda; ZUMT 55316: 183.5
mm TL, Palau Islands, Aug. 1935, coll. by Y. Haneda; ZUMT 68646: 182.1 mm TL, Palau Islands, Aug. 1936–
May 1937, coll. by T. Abe.

Locality unknown

ZUMT 63757: 212.0 mm TL.

Syngnathus Linnaeus, 1758 ヨウジウオ属
Syngnathus schlegeli Kaup, 1853 ヨウジウオ

[RUSSIA]

ZUMT 7280: 186.3+ mm SL, Vladivostok, coll. by I. Kaneko.

[JAPAN]**Hokkaido Pref.**

ZUMT 8240: 202.5 mm SL, Takashima.

Aomori Pref.

ZUMT 13002: 213.1–222.9 mm SL (2 specimens), Aomori, 4 Nov. 1923, coll. by S. Tanabe.

Toyama Pref.

ZUMT 32496: 94.4–118.0 mm SL (3 specimens), Higashiiwase, 28 Aug. 1935, coll. by H. Yamashita.

Yamaguchi Pref.

ZUMT 10126: 210.5 mm SL, Senzaki, coll. by S. Tanaka; ZUMT 26178: 242.1 mm SL, coll. by M. Nagatomi.

Nagasaki Pref.

ZUMT 2537: 197.0 mm SL, Oct. 1909; donation from Nagasaki Shihan School; ZUMT 5309: 163.0+–211.3 mm SL, Tsushima, 29 Sept. 1903, coll. by S. Watarase and S. Yasuda; ZUMT 27125: 194.0 mm SL, donated by Kaneko; ZUMT 33789: 237.0+ mm SL, Mar. 1909, coll. by S. Tanaka; ZUMT 48032: 181.8 mm SL, Hirado, 29 May 1953, coll. by I. Tomiyama.

Kumamoto Pref.

ZUMT 3274: 135.5 mm SL, 21 Jan. 1912, coll. by S. Kawakami.

Iwate Pref.

ZUMT 13080: 205.9 mm SL, Miyako Bay, coll. by S. Tanabe.

Chiba Pref.

ZUMT 27581: 101.5 mm SL, ZUMT 27582: 99.3 mm SL, ZUMT 27583: 98.3 mm SL, Boshu.

Tokyo Metropolitan Area

ZUMT 1139: 154.3–182.3 mm SL (2 specimens), Haneda; ZUMT 4097: 223.3 mm SL; ZUMT 4535: 214.5 mm SL, ZUMT 4536: 147.2 mm SL, ZUMT 4537: 189.2 mm SL, ZUMT 4538: 230.5 mm SL, ZUMT 4539: 223.9 mm SL, Tokyo Bay; ZUMT 5784: 140.1 mm SL; ZUMT 11953: 125.8 mm SL; ZUMT 12765: 187.5 mm SL; ZUMT 12783: 199.5 mm SL; ZUMT 21009: 110.4–225.1 mm SL (20 specimens), ZUMT 21010: 182.5 mm SL.

Kanagawa Pref.

ZUMT 5450: 141.5–220.0 mm SL (20 specimens), ZUMT 5454: 90.8 mm SL, Misaki, 1915; ZUMT 20295: 179.8 mm SL, ZUMT 20601: 197.2 mm SL, ZUMT 20641: 213.1 mm SL, ZUMT 20642: 196.1 mm SL, ZUMT 20643: 206.3 mm SL, ZUMT 20644: 213.5 mm SL, ZUMT 20703: 195.8 mm SL, ZUMT 20766: 224.1 mm SL, ZUMT 20767: 203.6 mm SL, ZUMT 20768: 207.3 mm SL, ZUMT 20769: 203.2 mm SL, ZUMT 20800: 175.7 mm SL, ZUMT 20837: 189.6 mm SL, ZUMT 20932: 171.2 mm SL, ZUMT 21034: 140.2 mm SL, ZUMT 22292: 186.3 mm SL, ZUMT 22293: 179.1 mm SL, ZUMT 22294: 178.1 mm SL, Misaki, 1930; ZUMT 27425: 103.5 mm SL, ZUMT 27426: 114.8 mm SL, ZUMT 27427: 118.5 mm SL, Sagami Bay, Misaki, Miura, 1934, coll. by S. Miyoshi; ZUMT 37572: 154.5 mm SL, ZUMT 37573: 166.0 mm SL, Sagami Bay, Misaki, Miura, 1936, coll. by S. Miyoshi; ZUMT 43607: 199.5 mm SL, ZUMT 43608: 140.0+ mm SL, Misaki, 1942; ZUMT 44446: 106.0+–192.5 mm SL (20 specimens), Sagami Bay, Misaki, Miura, 1943; ZUMT 48812: 66.2 mm SL, Arasaki, 24 July 1956, coll. by Imperial Household Agency; ZUMT 68622: 63.4–175.8 mm SL (27 specimens), Sagami Bay, Misaki, Miura, 1942.

Shizuoka Pref.

ZUMT 15797: 237.6 mm SL, Shimizu; ZUMT 18553: 202.0 mm SL, Lake Hamana, coll. by S. Omori.

Wakayama Pref.

ZUMT 20385: 146.1 mm SL, Tanabe, coll. by N. Ui; ZUMT 22525: 232.5 mm SL, Jan. 1920, coll. by N. Ui.

Hyogo Pref.

ZUMT 7418: 217.2 mm SL, Moroyose, coll. by K. Yamatori; ZUMT 7419: 185.7 mm SL, ZUMT 7422: 191.7 mm SL, Mikage, coll. by K. Yamatori.

Locality unknown

ZUMT 5455: 125.7–131.1 mm SL (17 specimens); ZUMT 26049: 164.1 mm SL, probably Toyama Pref., Japan, coll. by K. Kikuchi; ZUMT 36124: 173.5 mm SL, ZUMT 36125: 175.6 mm SL, ZUMT 46810: 155.5+–184.3 mm SL (10 specimens), ZUMT 63562: 69.7 mm SL; ZUMT 68665: 221.0–225.8 mm SL (2 specimens); ZUMT 68666: 139.1 mm SL, coll. by T. Abe.

Syngnathus typhle Linnaeus, 1758

[GERMANY]

ZUMT 68664: 100.5–224.1 mm SL (11 specimens), Kiel, coll. by I. Iijima.

Trachyrhamphus Kaup, 1853 ヒフキヨウジ属
Trachyrhamphus longirostris Kaup, 1856 イトヒキヨウジ

[Thailand]

ZUMT 66059: 218.0 mm SL, Gulf of Thailand, 9 July 1985.

Trachyrhamphus serratus (Temminck and Schlegel, 1850) ヒフキヨウジ

[JAPAN]**Nagasaki Pref.**

ZUMT 7281: 225.8 mm SL, ZUMT 7315: 225.0+ mm SL, coll. by I. Kaneko; ZUMT 27124: 163.0+ mm SL, donated by I. Kaneko.

Kanagawa Pref.

ZUMT 4177: 250.5+ mm SL, Misaki, 1914, coll. by I. Oga; ZUMT 20786: 318.3 mm SL, Misaki, 1930; ZUMT 44094: 322.3 mm SL, ZUMT 44095: 286.5 mm SL, Misaki.

Shizuoka Pref.

ZUMT 33008: 305.6 mm SL, Sagami Bay, Ajiro, Atami, coll. by S. Tanaka.

Kagoshima Pref.

ZUMT 26944: 206.9 mm SL.

Locality unknown

ZUMT 7357: 110.6 mm SL; ZUMT 8039: 242.5 mm SL, probably Wakayama Pref., Japan, coll. by I. Hoshino; ZUMT 68663: 251.5+ mm SL, 30 Aug. 1883, coll. by F. Sakamoto.

Urocampus Günther, 1870 オクヨウジ属
Urocampus nanus Günther, 1870 オクヨウジ

[JAPAN]**Aomori Pref.**

ZUMT 13004: 76.6–101.5 mm SL (2 specimens), Aomori, 4 Nov. 1923, coll. by S. Tanabe.

Kanagawa Pref.

ZUMT 27584: 106.4 mm SL, ZUMT 27585: 105.1 mm SL, ZUMT 27586: 109.6 mm SL, ZUMT 27587: 104.5 mm SL, ZUMT 27588: 109.2 mm SL, ZUMT 27589: 109.7 mm SL, ZUMT 27590: 106.9 mm SL, ZUMT 27591: 101.0 mm SL, ZUMT 27592: 95.6 mm SL, ZUMT 27593: 78.8 mm SL, ZUMT 27594: 73.4 mm SL, ZUMT

27595: 98.3 mm SL, Boshu; ZUMT 43243: 77.3–87.8 mm SL (563 specimens), Sagami Bay, Misaki, Miura, 1942; ZUMT 67473: 114.1 mm SL, Ena Bay, 12 May 2024; ZUMT 68608: 109.6–130.1 mm SL (2 specimens), Sagami Bay, Misaki, Miura, 1943.

Locality unknown

ZUMT 29223: 116.0 mm SL, ZUMT 29224: 113.5 mm SL, probably Shizuoka Pref., Japan, coll. by Y. Ito.

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Table 1. Counts and measurements of holotype of *Hippocampus takakurae* from Hojo, Tateyama, Chiba Prefecture, Japan.

	ZUMT22674
Sex	male
Standard length (mm)	199.0
Counts	
Trunk rings	11
Tail rings	41
Pectoral-fin rays (left/right)	17/17
Dorsal-fin rays	21
Anal-fin rays	4
Measurements (% of SL)	
Trunk length	23.3
Tail length	55.2
Head length	14.6
Trunk depth between 4th and 5th trunk rings	6.9
Trunk depth between 9th and 10th trunk rings	11.5
Trunk width between 9th and 10th trunk rings	6.6
Trunk depth, including lateral spines, at 9th rings	4.8
Dorsal fin length	9.1
Pectoral fin length	3.3
Measurements (% of HL)	
Head depth	61.5
Snout length	47.4
Snout depth	12.6
Coronet height	29.4
Orbital diameter	18.5
Postorbital length	38.1



Figure 1. Preserved holotype of *Hippocampus takakurae* (ZUMT 22674) from Hojo, Tateyama, Chiba Prefecture, Japan.

