

Report on the specimens of family Zeiformes (Teleostei) deposited in the Department of Zoology, The University Museum, The University of Tokyo

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Abstract

The collection of Zeiformes (Teleostei) held in the Department of Zoology, The University Museum, The University of Tokyo (ZUMT) comprise 171 lots, including 196 specimens representing five families, 11 genera and 15 species. Presence of the holotype of *Xenocyttus nemotoi* Abe, 1957 which was regarded as junior synonym of *Pseudocyttus maculatus* Gilchrist, 1906, was confirmed. Many specimens of several families which collected from New Zealand and Surinam were held in the collection. Various local names for Zeidae in each local region were listed with the specimens.

Introduction

The fish collection of Zeiformes (Teleostei) preserved in the Department of Zoology, The University Museum, The University of Tokyo (ZUMT) were re-identified in the present study. The Zeiformes is a small order comprises seven families, mostly inhabit in deep-sea (Tyler et al. 2003). Some of the species of Zeidae and Oreosomatidae are fished and traded commercially. Especially the latter family is an important trade fish group which imported from southern hemisphere to Japan for more than 10,000 kg/year (Seafood Market Improvement Association 2021; Tokyo Metropolitan Central Wholesale Market Annual Report 2022). The specimens of the order held in ZUMT are listed below.

Materials and Methods

Identities of the specimens of Zeiformes in ZUMT were confirmed by the first author, generally following Ueno et al. (1983), James et al. (1988), Yearsley and Last (1998), Nakabo (2013), Kai and Tashiro (2019), and Mizumachi et al. (2022). Standard lengths (SL) were measured for all specimens. Species are arranged in alphabetical order. Local name, and collector's name and affiliation are given where known (from the specimen ledger or tag), with Japanese language equivalents in parentheses. The following list includes ZUMT number, SL, with number of specimens in parentheses when two or more, type (abbreviated when non-type), collection locality, collection date, collector or donator and affiliation, collection method, and remarks when available. The collection year and collector for some specimens was estimated

by following Koeda et al. (2022). Specimens stored in large tank were marked with an asterisk (*). Although, some of the ZUMT specimens collected by Dr. Abe had not been formally cataloged into the ZUMT collection (and the data of some specimens not retained), such specimens which can recognize by having underbar with the number on the accompanying label, are listed herein with the number ZUMT ABE XXXX, due to the possibility of future discovery of Dr. Abe's remaining catalog books with collection data. Catalog numbers after ZUMT 62000 are newly given during this study.

Collection of Zeiformes in ZUMT

Examination of the specimens of Zeiformes deposited in ZUMT comprised 171 lots, including 196 specimens representing five families, 11 genera and 15 species. 41 specimens of Zeniontidae and Oreosomatidae which collected from New Zealand and Surinam were held in the collection including holotype of *Xenocyttus nemotoi* Abe, 1957 which was presently regarded as a junior synonym of *Pseudocyttus maculatus* Gilchrist, 1906. Various local names in each local region for the species of Zeidae which commercially fished in Japan, were listed below.

Parazenidae ベニマトウダイ科

Cyttopsis Gill, 1862 カゴマトウダイ属

Cyttopsis rosea (Lowe, 1843) カゴマトウダイ

ZUMT 15493: 116.3 mm SL, Zushi (逗子), Kanagawa Pref., 24 Nov. 1924, S. Miyashiro (宮代周輔).

ZUMT 24249: 94.0 mm SL; **ZUMT 24250:** 84.6 mm SL; **ZUMT 24251:** 89.9 mm SL, Mimase (御豊瀬), Kochi Pref., 15 Jan. 1932, T. Kamohara (蒲原稔治).

ZUMT 25351: 107.7 mm SL, 400 m off Onahama (小名浜), Fukushima Pref., 16 Dec. 1932, S. Tsunoda (角田春齐).

ZUMT 25267: 60.2 mm SL, off 200 hiro (尋=360 m) south of Shima (志摩), landed at Market of Toyohama Fishing Port (豊浜漁港市場), 31 Mar. 1933, S. Yoshikane (吉兼宗一).

ZUMT 33231: 87.5 mm SL, locality doubtful, nearby Taraika (多来加; currently Patience), Karafuto (樺太; currently Sakhalin), K. Sakamoto (坂本喜一), Hamamatsu Second Junior High School (浜松第二中学校).

Remarks: The similar doubtful situation confirmed on *Peristedion orientale* Temminck & Schlegel, 1843 (Peristediidae). See remarks of Wada et al. (2022c).

ZUMT 33706: 84.6 mm SL, Maisaka (舞坂), Shizuoka Pref., S. Ooe (大恵尚一), Hamamatsu Girls High School (浜松高等女学校).

ZUMT 33973: 119.2 mm SL, Hamamatsu (浜松), Shizuoka Pref., N. Ishiuchi (石内直太郎) at Hamamatsu Normal School (浜松師範).

ZUMT 34072: 67.4 mm SL, Onahama, Fukushima Pref., S. Tsunoda.

ZUMT 35250: 98.0 mm SL; **ZUMT 35251:** 72.9 mm SL, Hamamatsu, Shizuoka Prefecture, S. Araki (荒木精一) (Women's High School, Hamamatsu City) (浜松市立浜松高等女学校).

ZUMT 59317: 76.5 mm SL; **ZUMT 59685**: 56.0 mm SL, off Nakaminato (那珂湊), Ibaraki Pref., 200–220 depth, 31 Oct. 1988, bottom trawl.

ZUMT 59318: 64.8 mm SL, Three Kings Ridge, 30°19.38'S, 172°58.68'E, 389–895 m depth, 14 Jan. 1990, stomach content of *Squalus mitsukurii* Jordan & Snyder, 1903 (Squalidae)(NSMT-P 32393).

Remarks: Although ZUMT 59318 was recorded as a stomach content of NSMT-P 32392, the specimen is an embryo of NSMT-P 32393. Therefore, we judged ZUMT 59318 is a stomach content of NSMT-P 32393.

ZUMT 63248: 82.9 mm SL, locality unknown.

ZUMT 63249: 8 specimens, 58.4–114.8 mm SL, Heda (戸田), Suruga Bay (駿河湾), Shizuoka Pref., 2 Feb. 1936.

ZUMT 63323: 105.4 mm SL, Heda, Suruga Bay, Shizuoka Pref., Oct. 1970.

Parazen Kamohara, 1935 ベニマトウダイ属

Parazen pacificus Kamohara, 1935 ベニマトウダイ

ZUMT 23467: 114.2 mm SL, Kochi Pref., 14 Dec. 1930, T. Kamohara, Kochi High School (高知高等学校).

ZUMT 23653: 73.5 mm SL, Urado (浦戸), Kochi Pref., 10 Apr. 1931, T. Kamohara, Kochi High School.

ZUMT 24257: 105.8 mm SL; **ZUMT 24258**: 91.0 mm SL; **ZUMT 24275**: 124.6 mm SL, Mimase, Kochi Pref., 15 Jan. 1932

ZUMT 32906 (previously NSMT-P 7185): 119.6 mm SL, Suruga Bay, 16–20 Sept. 1968.

ZUMT 39342: 168.6 mm SL, locality unknown.

ZUMT 47010: 132.1 mm SL; **ZUMT 47011**: 120.0 mm SL; **ZUMT 47113**: 74.4 mm SL, probably from Kochi, T. Kamohara.

Zeniontidae ソコマトウダイ科

Capromimus Gill, 1893 マメマトウダイ属

Capromimus abbreviatus (Hector, 1875) マメマトウダイ

ZUMT 56425 (tag T-73): 98.9 mm SL; **ZUMT 56426** (tag T-73): 85.4 mm SL; **ZUMT 59620**: 85.0 mm SL; **ZUMT 59621**: 88.6 mm SL; **ZUMT 59622**: 90.4 mm SL; **ZUMT 59623**: 84.3 mm SL; **ZUMT 59624**: 88.8 mm SL; **ZUMT 59625**: 71.2 mm SL; **ZUMT 59626**: 86.7 mm SL; **ZUMT 59627**: 87.3 mm SL; **ZUMT 59628**: 83.4 mm SL; **ZUMT 59629**: 88.8 mm SL; **ZUMT 59630**: 89.9 mm SL, Chatham Rise, New Zealand, 17 Mar. 1983, M. Aizawa.

ZUMT 63253 (cloth tag MAC 1355: Masahiro Aizawa Collection): 18: 59.6–88.4 mm SL, Chatham Rise (T-73), 43°37'S, 177°41'E, 372–374 m depth, 17 Mar. 1983.

Zenion Jordan & Evermann, 1896 ソコマトウダイ属

Zenion japonicum Kamohara, 1934 ソコマトウダイ

ZUMT 23520: 57.0 mm SL, Urado, Kochi Pref., 10 Apr. 1931, T. Kamohara, Kochi High School.

ZUMT 26047: 58.9 mm SL, Toyama Pref., 22 July 1933, K. Kikuchi (菊池勘左衛門), Toyama High School (富山高等学校).

ZUMT 33652: 49.6 mm SL; **ZUMT 33653**: 55.6 mm SL; **ZUMT 33654**: 57.4 mm SL, near Aichi Pref., 30 Oct. 1933, Aichi Prefectural Fisheries Station (愛知県水産試験場).

ZUMT 39365: 52.4 mm SL, locality unknown.

ZUMT 47210: 36.2 mm SL, probably Kochi Pref.

ZUMT 54653: 50.3 mm SL; **ZUMT 54654**: 41.3 mm SL; **ZUMT 54655**: 40.0 mm SL; **ZUMT 54656**: 43.2 mm SL; **ZUMT 54657**: 58.8 mm SL; **ZUMT 54658**: 64.6 mm SL, Suruga Bay, west of Senoumi (石花海), Shizuoka Pref., 225 m depth, 26 Sept. 1984, Saito (first name unknown), collected by F/V *Hinodemaru* (日の出丸).

Zenion sp. 1

ZUMT 59641: 96.8 mm SL; **ZUMT 59642**: 106.9 mm SL; **ZUMT 59643** (Fig. 1): 101.6 mm SL; **ZUMT 59644**: 76.4 mm SL; **ZUMT 59645**: 79.2 mm SL, Norfolk Island area, 16 Jan. 1975.

Remarks: This species has smaller eye with elongated body compared to *Zenion* sp. 2 (Fig. 1). Although *Zenion leptolepis* (Gilchrist & von Bonde 1924) is known widely from Indo-West Pacific, the advanced taxonomical study is necessary to identify this group.

Zenion sp. 2

ZUMT 59646: 65.0 mm SL; **ZUMT 59647**: 74.0 mm SL; **ZUMT 59648** (Fig. 1): 73.2 mm SL; **ZUMT 59649**: 61.1 mm SL; **ZUMT 59650**: 68.2 mm SL; **ZUMT 59651**: 57.6 mm SL; **ZUMT 59652**: 78.8 mm SL, west of South Fiji Basin, tropical Pacific area.

Remarks: ZUMT specimen ledger written as South Fiji Ridge (南フィジー海嶺), but is probably mistake of South Fiji Basin (南フィジー海盆). This species has huge eye with large head and oval-shaped body compared to *Zenion* sp. 1 (Fig. 1).

Zeidae マトウダイ科

Zenopsis Gill, 1862 カガミダイ属

Zenopsis filamentosa Kai & Tashiro, 2019 イトヒキカガミダイ

ZUMT 4796: 60.9 mm SL, Taiza (間人), Takeno (竹野), Tango (丹後)[currently Kyotango (京丹後)], 14 Aug. 1902, F. Azuma (東 文治).

Remarks: Local name “Bato”.

ZUMT 11512: 174.4 mm SL, Onahama, Fukushima Pref., 19 Nov. 1922, T. Nakahira (中平貞次郎)(Fukushima Prefectural Fisheries Station at Onahama).

Remarks: Local name “Gamidai”.

ZUMT 23862: 150.9 mm SL, Naya (納屋) [currently Nakamachi and Kinsei-cho (中町・金生町)], Kagoshima Pref.

Remarks: Local name “Waide” is an idiom of “Washidai”.

ZUMT 34084: 78.8 mm SL; **ZUMT 34089:** 69.6 mm SL, Onahama, Fukushima Pref., S. Tsunoda (Fukushima Prefectural Fisheries Station at Onahama).

ZUMT 51053*: 235.8 mm SL, Norin Area 265, East China Sea, 1 Mar. 1960.

ZUMT 63321: 193.2 mm SL, near Kesen (氣仙), Rikuzen (陸前), Iwate Pref., 15 Dec. 1925.

ZUMT 63337 (cloth tag Abe 62): 97.1 mm SL, locality unknown.

ZUMT 63423: 160.7 mm SL, Fukuoka City, Fukuoka Pref., 27 Aug. 1931.

Zenopsis nebulosa (Temminck & Schlegel, 1845) カガミダイ

ZUMT 11528*: 189.7 mm SL, Taiza, Takeno, Tango (currently Kyotango), 14 Aug. 1902, F. Azuma.

ZUMT 13119: 92.7 mm SL, Shirahamazaki (白浜崎) or Fudozaki (不動崎), Miyako Bay (宮古湾), S. Tanabe (田辺貞夫).

ZUMT 16297: 49.9 mm SL, Kesen, Iwate Pref., 10 Aug. 1925.

ZUMT 18902: 66.1 mm SL, Kanagawa Pref., Kanagawa Prefectural Hiratsuka Town Suga Elementary School.

ZUMT 22041: 78.9 mm SL, near Wakayama City, Wakayama Pref., Jan. 1920.

ZUMT 25253: 81.1 mm SL, off Onahama, Sept. 1931, S. Tsunoda.

ZUMT 31498* (cloth tag 244): 357.2 mm SL, Matsue (松江), Shimane Pref., Nov. 1935, T. Yanai (柳井隆一), Matsue High School (松江高校).

ZUMT 34001: 56.6 mm SL, Yokohama (横浜) or Ninomiya (二宮), Kanagawa Pref.

ZUMT 34085: 83.0 mm SL; **ZUMT 34086:** 85.0 mm SL; **ZUMT 34087:** 106.7 mm SL;

ZUMT 34088: 73.8 mm SL, Onahama, Fukushima Pref., S. Tsunoda.

ZUMT 40661: 154.7 mm SL, locality unknown.

Remarks: Although the collection locality was written as “probably Morioka (盛岡か?)”, Morioka is a city located inland.

ZUMT 46171*: 285.9 mm SL, Namerikawa (滑川), Uozu (魚津), Toyama Pref.

ZUMT 49875: 153.9 mm SL, Fukue (福江), Fukue-jima Island (福江島), Goto Islands (五島列島), 10 June 1953, I. Tomiyama (冨山一郎).

ZUMT 51241*: 193.9 mm SL, East China Sea, collected at fish landing ground of Fukuoka Fish Market, 24 Dec. 1959, Y. Tominaga.

ZUMT 52285: 95.0 mm SL, Norin Area 253–254, East China Sea, arrival in port at 5 May 1960, F/V No. 1 and No. 2 *Shotokumaru* (第1、第2昭徳丸), bottom trawl.

ZUMT 63320 (cloth tag T-19): 167.7 mm SL, locality unknown.

ZUMT ABE 62-322: 74.1 mm SL; **ZUMT ABE 62-324:** 57.2 mm SL; **ZUMT ABE 62-325:** 61.1 mm SL; **ZUMT ABE 62-326:** 54.2 mm SL; **ZUMT ABE 62-327:** 48.9 mm SL;

ZUMT ABE 62-328: 50.7 mm SL; **ZUMT ABE 62-329**: 49.0 mm SL; **ZUMT ABE 62-330**: 46.6 mm SL; **ZUMT ABE 62-331**: 36.3 mm SL; **ZUMT ABE 62-332**: 37.3 mm SL; **ZUMT ABE 62-333**: 39.4 mm SL, Manazuru (真鶴), Kanagawa Pref., 17 Mar.–2 Apr. 1962.

Zeus Linnaeus, 1758 マトウダイ属
Zeus faber Linnaeus, 1758 マトウダイ

ZUMT 11532*: 228.7 mm SL, Onahama, Fukushima Pref., T. Nakahira.

ZUMT 13051*: 267.2 mm SL, Sokeimura Beach (磯鶏村海岸), Shimohei-gun (下閉伊郡), 1914–1924, Iwate Pref., S. Tanabe.

Remarks: Local name “Matoyo”.

ZUMT 13249* (cloth tag 30 鮫): 263.1 mm SL; **ZUMT 13250**: 33.2 mm SL, Nara Fishing area (奈良漁場), Shirogane-maehama (白金前濱), Hamasuka (浜須賀), probably Miyagi Pref., 27 Oct. 1923, S. Tanabe.

Remarks: Detail locality of “Nara Fishing area, Shirogane-maehama, Hamasuka” could not find, because the local name “Hamasuka” is known from several localities in Japan. We estimated the locality is in Tohoku area, because S. Tanabe provided many specimens from this area in 1920’s. Local name “Baibai”.

ZUMT 13281*: 179.7 mm SL, off Fukaura (深浦沖合), Nishi-tsugaru-gun (西津軽郡), Aomori Pref., May 1923, S. Tanabe.

Remarks: Local name “Matodai”.

ZUMT 13366*: 170.2 mm SL, 12 miles off Nyudozaki (入道崎沖合 12 哩), Oga Peninsula (男鹿半島), Akita Pref., 1914–1924, S. Tanabe.

Remarks: Local name “Kanetataki”.

ZUMT 13881: 86.8 mm SL, Kesen, Iwate Pref., 2 Jan. 1925, G. Toba (鳥羽源蔵), Iwate Prefecture Normal School (岩手県師範学校).

ZUMT 16382: 39.4 mm SL, Kesen, Iwate Pref., 20 Aug. 1925, G. Toba.

ZUMT 20535: 70.6 mm SL; **ZUMT 20536**: 81.6 mm SL, Wakayama Pref., Jan. 1920.

ZUMT 20902: 114.8 mm SL, Misaki (三崎), Miura (三浦), Kanagawa Pref.

ZUMT 23183: 61.3 mm SL; **ZUMT 23184**: 69.3 mm SL, Kimoto (木本), Mie Pref., 3 May 1930, Y. Tsuchiga (槌賀安平), Kimoto Junior High School (木本中学校).

Remarks: Local name “Matohage”.

ZUMT 23367: 120.9 mm SL, Owase (尾鷲), Mie Pref., T. Nalahara (中原綱作).

Remarks: Local name “Matou-uo”.

ZUMT 23951: 75.5 mm SL, Naya (currently Nakamachi and Kinsei-cho), Kagoshima Pref.

Remarks: Local name “Washide”.

ZUMT 24954 (cloth tag 93): 91.9 mm SL, Horiemura Beach (堀江村海岸), Onsen-gun (温泉郡), Ehime Pref., Oct. 1931, J. Ishikawa (石川重次郎), Matsuyama Women's High School (松山高等女学校).

- ZUMT 25274:** 79.7 mm SL, off Onahama, Fukushima Pref., S. Tsunoda, Fukushima Prefectural Onahama Elementary School.
- ZUMT 27918** (cloth tag 0.45): 81.7 mm SL, probably southern Japan (南日本?).
Remarks: Local name “Matouo”.
- ZUMT 31293** (cloth tag No. 66): 128.6 mm SL, Matsue, Shimane Pref., Nov. 1935, T. Yanai, Matsue High School.
- ZUMT 32389:** 40.3 mm SL, Toyama Bay (富山湾), 14 Sept. 1935, H. Yamashita (山下博三).
- ZUMT 33962:** 336.5 mm SL, Kochi Pref., Aug. 1904, S. Tanaka (田中茂穂).
- ZUMT 34002:** 50.7 mm SL, Yokohama or Ninomiya, Kanagawa Pref.
- ZUMT 36426:** 122.3 mm SL, Hayama (葉山), Kanagawa Pref., Aug. 1936, S. Inuo (犬尾三郎).
- ZUMT 41248*:** 147.1 mm SL, Namerikawa, Uozu, Toyama Pref., 1931, I. Tomiyama.
- ZUMT 44248:** 33.6 mm SL, Odawara (小田原), Kanagawa Pref.
- ZUMT 47781:** 125.8 mm SL, Mera (布良), Tateyama (館山), Chiba Pref., collected from Tokyo Market (東京市場), 11 Sept. 1952.
- ZUMT 47893:** 67.2 mm SL, Tamanoura (玉之浦), Fukue-jima Island, Goto Islands, 23 May 1953, I. Tomiyama.
- ZUMT 48026:** 36.2 mm SL; **ZUMT 48027:** 72.3 mm SL, Hirado (平戸), Matsuura-gun (松浦郡), Nagasaki Pref., 29 May 1953, I. Tomiyama.
- ZUMT 49132:** 128.9 mm SL, Misaki, Miura, Kanagawa Pref., 1956, I. Tomiyama.
- ZUMT 49876*:** 179.8 mm SL, Fukue, Fukue-jima Island, Goto Islands, 10 June 1953, I. Tomiyama.
- ZUMT 51340:** 105.0 mm SL, near Fukuoka, collected at Fukuoka Fish Market, Oct.-Dec. 1959, Y. Tominaga.
- ZUMT 52099:** 162.8 mm SL; **ZUMT 52127:** 142.2 mm SL, Norin Area 253–254, East China Sea, landed at Fukuoka Fish Market.
- ZUMT 56913:** 171.8 mm SL; **ZUMT 57643:** 155 mm SL, East China Sea, 9 May 1988, probably Y. Tominaga.
- ZUMT 57628:** 62.0; 71.6 mm SL, East China Sea, 7 May 1988.
- ZUMT 63325:** 40.0 mm SL, locality unknown, written as Yodomi Kanashiro “ヨドミ カナシロ”.
- ZUMT 63422:** 191.9 mm SL, Nishimon-machi Market (西門町市場), Taipei (台北), Taiwan, 1 May 1929.
- ZUMT 47933*:** 185.0 mm SL; **ZUMT 63319*** (cloth tag T-4): 291 mm SL; **ZUMT 63326:** 65.5 mm SL; **ZUMT 63327:** 55.4 mm SL; **ZUMT 63328:** 60.0 mm SL; **ZUMT 63329:** 47.1 mm SL; **ZUMT 63334** (cloth tag 8904): 137.3 mm SL; **ZUMT 63335** (cloth tag 8973): 132.1 mm SL; **ZUMT 63336** (cloth tag 7790): 117.0 mm SL, locality unknown.

Oreosomatidae オオメマトウダイ科

Allocyttus McCulloch, 1914 オオメマトウダイ属

Allocyttus niger James, Inada & Nakamura, 1988 クロマトウダイ

ZUMT 59673: 74.1 mm SL, off Suriname, 15 Dec. 1979.

ZUMT 59680 (MAC 1203): 213.1 mm SL, Chatham Rise (T-33), 44°26'S, 173°53'E, 733–737 m depth, 8 Mar. 1983.

Allocyttus verrucosus (Gilchrist, 1906)

ZUMT 59674: 28.9 mm SL, off Suriname, 15 Dec. 1979.

Remarks: Although Nakabo and Kai (2013) showed the illustration of this specimen as a juvenile of *Allocyttus folletti* Myers, 1960 collected from stomach contents of *Katsuwonus* or *Thunnus* collected at northern Pacific Ocean, ZUMT specimen ledger revealed that the specimen collected from off Suriname, and was herein identified to *A. verrucosus*.

Neocyttus Gilchrist, 1906 ツノマトウダイ属

Neocyttus rhomboidalis Gilchrist, 1906 ツノマトウダイ

ZUMT 56427 (cloth tag T-73): 121.9 mm SL, Chatham Rise, New Zealand, 17 Mar. 1983, M. Aizawa (藍澤正宏).

ZUMT 59677: 99.3 mm SL; **ZUMT 63249**: 113.4 mm SL; **ZUMT 63250**: 109.4 mm SL; **ZUMT 63251**: 98.6 mm SL; **ZUMT 63252**: 101.6 mm SL, locality unknown.

Oreosoma Cuvier, 1829 ガクガクギョ属

Oreosoma atlanticum Cuvier, 1829 ガクガクギョ

ZUMT 59672: 70.8 mm SL, off Suriname, 15 Dec. 1979.

Pseudocyttus Gilchrist, 1906 ヒョウマトウダイ属

Pseudocyttus maculatus Gilchrist, 1906 ヒョウマトウダイ

ZUMT 49756 (previously ABE 55-111): 125.8 mm SL, holotype of *Xenocyttus nemotoi* Abe, 1957, Antarctic Ocean, 64°32'S, 115°25'E, 15 Jan. 1955, stomach content of Fin whale.

Remarks: *Xenocyttus nemotoi* is regarded as a junior synonym of *Pseudocyttus maculatus*.

ZUMT 56429: 165.8 mm SL, dissected, Chatham Rise, New Zealand, 17 Mar. 1983, M. Aizawa.

ZUMT ABE 17653: 174.0 mm SL, New Zealand, 15 Dec. 1971.

Grammicolepididae ヒシマトウダイ科
Xenolepidichthys Gilchrist, 1922 ヒシマトウダイ属
Xenolepidichthys dalgleishi Gilchrist, 1922 ヒシマトウダイ

ZUMT 54387: 72.2 mm SL; **ZUMT 54388**: 83.6 mm SL; **ZUMT 54389**: 84.8 mm SL, off Heda (戸田), Numazu (沼津), Shizuoka Pref., 21 Dec. 1940, Dainichi-maru.

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Figure 1. Preserved specimens of *Zenion* sp. 1 (ZUMT 59643; upper) and *Zenion* sp. 2 (ZUMT 59648; lower).