

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

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Abstract

The collection of Ephippidae (Teleostei: Perciformes) deposited in the Department of Zoology, the University Museum, the University of Tokyo (ZUMT) were re-identified in the present study. In total 45 specimens in 45 lots of two genera of four species were found from the collection. A single specimen of *Platax orbicularis* (Forsskål, 1775)(ZUMT 62320) which collected from Natuna Islands (Indonesia), was discovered from the uncataloged specimen group which donated by Sarawak Museum to I. Tomiyama. The collection date of the specimen written as 25 November 1890 on the paper tag which found from the gill chamber of the specimen, and is probably representing the oldest specimen in the ZUMT collection.

Introduction

The fish collection of families Ephippidae (Teleostei: Perciformes) which preserved in the Department of Zoology, the University Museum, the University of Tokyo (ZUMT) were re-identified in the present study. The family Ephippidae found in a variety of shallow-water habitats, estuaries, harbors, and coral reefs (Heemstra 2001). Although eight genera are known for the family (Fricke et al. 2022), two genera, *Ephippus* Cuvier, 1816 and *Platax* Cuvier, 1816, have been recorded from Japanese waters (Hayashi and Hagiwara 2013). During the management of ZUMT, 45 specimens of 45 lots of Ephippidae were discovered from the collection. The specimens were re-identified by the first author, and listed below.

Materials and Methods

The specimens of Ephippidae in ZUMT were re-identified in the present study, generally following Heemstra (2001) and Hayashi and Hagiwara (2013), and confirmation of at least one diagnostic character. The standard length (SL) of the specimens 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 catalog 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). 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 Ehippidae in ZUMT

During this research, 45 specimens in 45 lots of two genera of four species of Ehippidae were found from the ZUMT collection. A single specimen of *Platax orbicularis* (Forsskål, 1775)(ZUMT 62320) which collected from Natuna Islands (Indonesia) on 25 November 1890, was discovered from the uncataloged specimen group which donated by Tom Harrison (Sarawak Museum) to Ichiro Tomiyama. This specimen probably representing the oldest specimen in the ZUMT collection.

Ehippidae マンジュウダイ科
Ehippus Cuvier, 1816 マンジュウダイ属
Ehippus orbis (Bloch, 1787) マンジュウダイ

- ZUMT 13699**: 91.4 mm SL, off Tansui (淡水), Taipei (台北), Taiwan, T. Aoki (青木赳雄) at Fisheries Division of Governor-General's Office, Taiwan (台湾総督府殖産局水産課).
ZUMT 39591: 79.3 mm SL, Philippines, probably 1926, U. Yamamura.
ZUMT 57503: 138.6 mm SL, locality unknown.

Platax Cuvier, 1816 ツバメウオ属
Platax orbicularis (Forsskål, 1775) ナンヨウツバメウオ

- ZUMT 19702**: 34.6 mm SL, Keelung (基隆), Taiwan, H. Sato (佐藤春吉) at Taipei Keelung Junior High School (台北基隆中学校).
ZUMT 20253: 77.2 mm SL, Wakayama Pref.
ZUMT 35989: 67.3 mm SL, Fukura (福良), Awaji-shima Island (淡路島), Hyogo Pref., 5 Mar. 1912, R. Uchimura (内村柳太郎).
ZUMT 37649: 95.5 mm SL; **ZUMT 37650**: 124.2 mm SL; **ZUMT 37651**: 104.6 mm SL, **ZUMT 37653**: 27.6 mm SL, Palau, 19 Oct. 1936, probably T. Abe (阿部宗明).
ZUMT 43298: 47.2 mm SL; **ZUMT 43299**: 46.0 mm SL, locality unknown.
ZUMT 42326: 181.5 mm SL, Basilan, Philippines, 1926, U. Yamamura (山村樸次郎).
ZUMT 52175: 46.6 mm SL, Totoro (土々呂), Nobeoka (延岡), Miyazaki Pref., Aug. 1960.
ZUMT 53413: 61.2 mm SL, Ishigaki-jima Island.
ZUMT 54607: 38.3 mm SL; **ZUMT 54608**: 56.1 mm SL, Fish market, Puerto Princesa, Palawan Island, Philippines, 8 Feb. 1985, M. Aizawa (藍澤正宏).
ZUMT 55308: 62.4 mm SL, Palau, Aug. 1935, Y. Haneda (羽根田彌太).

ZUMT 62320: 104.2 mm SL, Natuna Islands (Indonesia), 25 Nov. 1890, donated by Sarawak Museum to I. Tomiyama.

ZUMT ABE 2836: 84.5 mm SL; **ZUMT ABE 3693:** 20.8 mm SL; **ZUMT ABE 3902:** 19.2 mm SL; **ZUMT ABE 6057:** 30.1 mm SL, Palau, 1930's, T. Abe.

Platax pinnatus (Linnaeus, 1758) アカククリ

ZUMT 11103: 108.0 mm SL, Philippines, U. Yamamura.

ZUMT 25567: 192.3 mm SL, Philippines, identified on 12 May 1933, A. W. Herre at Stanford University.

ZUMT ABE 2614: 209.3 mm SL; **ZUMT ABE 2867:** 92.5 mm SL, Palau, 1930's, T. Abe.

Platax teira (Forsskål, 1775) ツバメウオ

ZUMT 12678: 162.7 mm SL, locality unknown.

ZUMT 19397 (anterior half of body) and **ZUMT 19398** (posterior half of body): 273.1 mm SL; **ZUMT 19399:** 226.2 mm SL, Hachijo-jima Island (八丈島), late 1920's to early 1930's, Y. Oshitsu (押津義雄).

ZUMT 20216: 115.5 mm SL, Wakayama Pref., Jan. 1930, N. Ui (宇井縫蔵).

ZUMT 23969: 119.9 mm SL, Shibushi (志布志), Kagoshima Pref.

ZUMT 31001: 142.6 mm SL; **ZUMT 38893:** 235.2 mm SL, Hachijo-jima Island.

Remarks: This species called as "Uchiwauwo (ウチワウヲ)" in local name.

ZUMT 37579: 87.8 mm SL, Misaki (三崎), Miura (三浦), Kanagawa Pref., 1930's, K. Miyoshi (三好 要).

ZUMT 37652: 162.0 mm SL, Palau, 19 Oct. 1936.

ZUMT 42363: 75.8 mm SL, Basilan, Philippines, 1926, U. Yamamura.

ZUMT 47669: 101.9 mm SL, unknown.

ZUMT 48906: 162.2 mm SL, near Joga-shima Island (城ヶ島), Kanagawa Pref., 6 Apr. 1957, I. Tomiyama.

ZUMT 49983: 117.2 mm SL, Arikawa (有川), Nakadori-jima Island (中通島), Goto Islands (五島列島), 10 June 1953, I. Tomiyama.

ZUMT 50033: 172.1 mm SL, Mitsuiraku (三井楽), Fukue-jima Island (福江島), Goto Islands, 13 Oct. 1953, I. Tomiyama.

ZUMT 50210: 130.7 mm SL, Arikawa, Nakadori-jima Island, Goto Islands, 19 Oct. 1953, I. Tomiyama.

ZUMT 62335: 244.2 mm SL, **ZUMT 62336:** 147.9 mm SL, locality unknown.

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