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Discovery of the Third Species of the Genus *Eutheia* (Coleoptera: Scydmaenidae) from Shikoku, Japan

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Abstract. Third Japanese species of the genus *Eutheia* is discovered from Shikoku, Japan. *Eutheia yoshidai* sp. nov. is described in this paper.

Introduction

The genus *Eutheia* Stephens belongs to the tribe Eutheini of the family Scydmaenidae (Newton & Franz, 1998). In Japan, *Eutheia japonica* K. Sawada, 1962 and *E. holzeri* Franz, 1976 had been recorded (Sawada, 1962; Franz, 1976; O'Keefe & Li, 1998). However, *E. japonica* and *E. holzeri* were transferred to the genera *Veraphis* Casey and *Paraneseuthia* Franz, respectively (Jałoszyński & Hoshina, 2004; 2005). Later, two species of *Eutheia*, *E. rufa* and *E. horii*, were described from Hokkaido, Japan (Jałoszyński, 2004).

Recently, I had an opportunity to examine one specimen of *Eutheia*, which was collected by the flight intercept trap (FIT) from Tokushima Pref., Shikoku. My careful examination showed that the specimen belongs to a new member of *Eutheia*. In this paper, I describe the new species, under the name, *E. yoshidai* sp. nov. The holotype designated in this study is deposited in the collection of the Museum of Nature and Human Activities, Hyôgo (MNHA).

Before going further, I wish to express my sincere gratitude to Mr. Masataka Yoshida (Tokushima Pref.) who gave me the opportunity to examine a valuable specimen.

Eutheia yoshidai Hoshina, sp. nov.

(Japanese name: Awa-nise-naga-kokemushi)

(Figs. 1-5)

Distribution. Japan: Shikoku (Tokushima Pref.).

Type series. Holotype: male, Okuyarito, Kisawa-son, Tokushima Pref., Shikoku, Japan, 25-28. v. 2004, K. Tanaka leg. (FIT) (MNHA).

Male. Diagnosis. *Eutheia yoshidai* sp. nov. is the third Japanese species of this genus. Body is brownish. Dorsum is moderately pubescent. Pronotum has two distinct and three indistinct basal foveae. Hind wings are well developed.

Measurement: Body 1.7 mm in length; head 0.25 mm in length (from clypeus to base) and 0.29 mm in width; pronotum 0.35 mm in length and 0.43 mm in width; elytra 0.80 mm in length and 0.57 mm in width.

Coloration. Dorsum brownish; head, pronotum, and elytra brown; pygidium yellowish brown; maxillary palpus very light brown; antennae brownish; 1st antennal segment a little darker than other segments; meso- and metasterna brown; venter yellowish brown; tarsi very light brown, other parts of legs light brown or yellowish brown.

Body flat as other Japanese species of *Eutheia*, and about three times as long as wide (Fig. 1).

Head almost smooth; frons and vertex sparsely and finely pubescent; setal socket punctures of head minute; eyes oval, and about 0.47 times as long as length of head; neck almost glabrous; antennae about 0.7 mm in length; 1st, 2nd, and 11th antennal segments clearly longer than wide; 3rd segment wider than long; other segments about as long as wide or a little wider than long; 11th segment slender oval (Fig. 2); relative lengths of antennal segments from 2nd to 11th segments as follows:- 1.8: 1.0: 1.3: 1.5: 1.3: 1.4: 1.2: 1.7: 1.6: 2.8.

Pronotum widest at about basal 2/5, almost smooth, and moderately and finely pubescent; setal socket punctures of pronotum distinct; lateral margins crenelated from apical 1/4 to base; two external basal foveae large and deep; other three foveae small and shallow (Fig. 1).

Scutellum triangular, smooth, and pubescent as elytra, and with a posterior part slightly raised.

Elytra widest at about basal 3/7, almost smooth, and moderately and finely pubescent; basal two foveae shallow; humeri raised; setal socket punctures of elytra distinct.

Hind wings fully development.

Legs similar to those of other two Japanese species of *Eutheia*.

Meso- and metasterna smooth, and moderately and finely pubescent; venter pubescent as metasternum, and weakly and partly microreticulate.

Aedeagus slender (Figs. 3-5); median lobe about 0.55 mm in length and about 0.21 mm in width in ventral and dorsal views; apex of median lobe simply round in ventral and dorsal views and pointed in lateral view; each paramere almost straight in ventral view and weakly curved in lateral view.

Remarks. *Eutheia yoshidai* sp. nov. is third Japanese species of this genus. Japanese *Eutheia* has been known to occur in only Hokkaido (Jałoszyński, 2004). As a result of the description of *E. yoshidai* sp. nov., *Eutheia* is recorded for the first time from Shikoku.

The present new species is similar to *E. rufa* Jąłoszyński, 2004 in appearance, but can be distinguished from it by having the pronotum crenelated in about basal 3/4 of lateral margins and the median lobe of aedeagus simply round at apex in ventral and dorsal views (Figs. 3 and 4). In contrast, *E. rufa* has the pronotum crenelated in about basal 1/3 of lateral margins and the median lobe with complicated apical margins.

Etymology. The specific name is dedicated to Mr. Masataka Yoshida who provided me an opportunity to examine a specimen used in this paper.

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Explanations of Figures

Fig. 1-5. *Eutheia yoshidai* sp. nov. 1, body; 2, antenna; 3-5, aedeagus (3, ventral view; 4, dorsal view; 5, lateral view). Scale A: 1 mm for Fig. 1. Scale B: 0.5 mm for Fig. 2. Scale C: 0.2 mm for Figs. 3-5.

