

A New and Two Newly Recorded Species of the Genus *Sacodes* (Coleoptera: Scirtidae) from Yakushima, Japan

Hiroyuki YOSHITOMI

Bioindicator Co., Ltd. (Sapporo Branch), Kita 1, Nishi 2–11, Chûô-ku, Sapporo, 060–0001 Japan
E-mail: yoshitomi@bioindicator.co.jp

Abstract A new species of the genus *Sacodes*, *S. shibatai* sp. nov., is described from Yakushima. *Sacodes amamiensis* (M. SATÔ) and *S. minima* (KLAUSNITZER) are newly recorded also from Yakushima, Japan.

Up to the present, only one species of the genus *Sacodes*, *S. nakanei* (KLAUSNITZER), has been recorded (YOSHITOMI, 1997, 2005) from the Yakushima Island. Recently I had a chance to examine scirtid specimens in Taichi SHIBATA's collection which will be housed at Kashihara City Insectarium. After a careful examination, I recognized three *Sacodes* species collected from Yakushima, and one of them is an undescribed species and two are species unrecorded from Yakushima.

The present paper gives a description of the new *Sacodes* species and a new record of two species.

The abbreviations for measurement used in the present paper are as follows:
PL — length of pronotum; PW — width of pronotum; EL — length of elytra;
EW — width of elytra; TL — total length (PL plus EL).

***Sacodes shibatai* sp. nov.**

[Japanese name: Yaku-kimune-maruhananomi]
(Figs. 1–9)

Type material. Holotype (preserved in Taichi SHIBATA collection which will be housed at Kashihara City Insectarium): ♂, “KOSUGIDANI YAKU IS. 5. IV. 1965 M. YASUI”.

Description. Male. Body oval, convex dorsad, shining, closely covered with yellow-



Fig. 1. Habitus of *Sacodes shibatai* sp. nov., holotype.

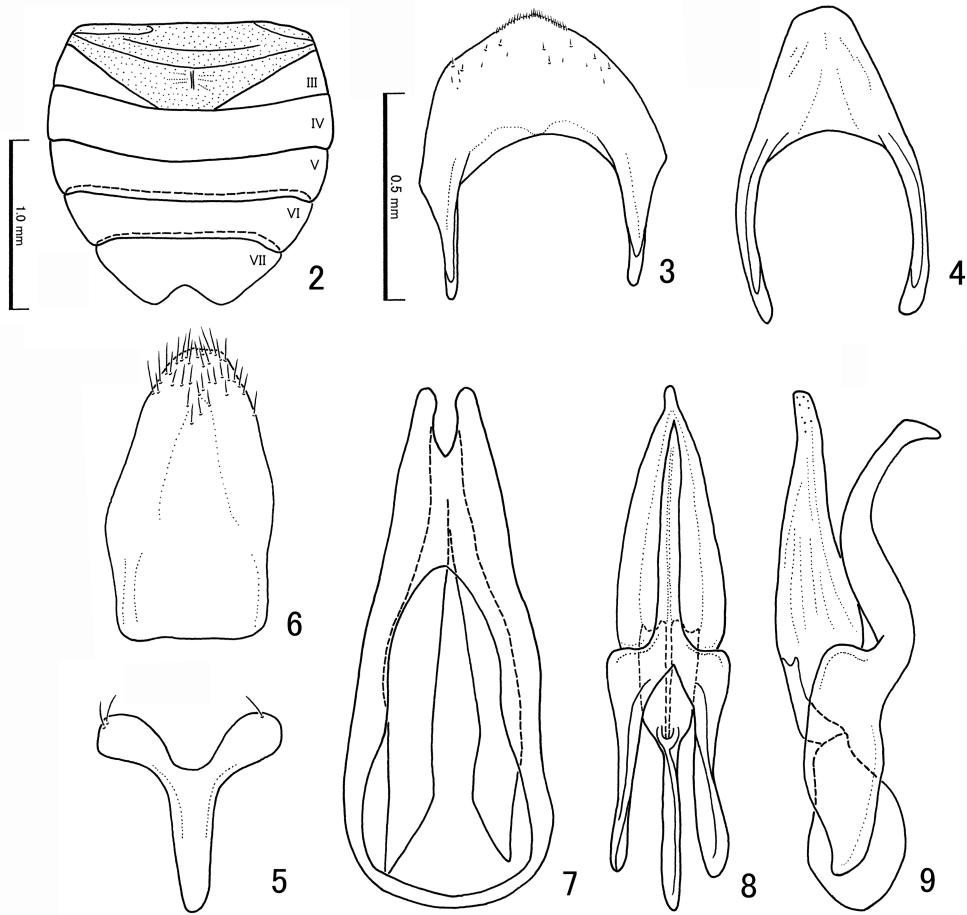
ish white short hairs. Coloration of body almost brownish black; lateral and anterior parts of pronotum widely yellow; antennal segments I–III brown.

Head large, slightly convex above. Eyes large, prominent; the distance between eyes about 1.8 times as long as the maximum diameter of an eye. Antennae relatively long and stout, reaching about the middle of elytra, serrate in segments IV–X. Pronotum semicircular, minutely granulate, broadest at base, somewhat depressed above in lateral areas; PW/PL 1.61. Scutellum triangular, closely punctate. Elytra oval, broadest at the middle, closely punctate; EL/EW 1.32; EL/PL 3.09; EW/PW 1.45; TL/EW 1.75.

Legs moderate in length.

Tergite VI with short apodemes at antero-lateral corners; tergite VII simply trapezoidal. Caudal margin of sternite VII deeply concave. Tergite VIII moderately sclerotized, semicircular, covered with minute setae and punctures in posterior half, bearing short spines on posterior end, with long apodemes protruding from antero-lateral corners; tergite IX lightly sclerotized, trapezoidal, with long apodemes protruding from antero-lateral corners; sternite VIII lightly sclerotized, Y-shaped, with one or two setae on postero-lateral margins; sternite IX lightly sclerotized, oblong, covered with long setae near about caudal 1/4. Tegmen large, well sclerotized, broadest at about anterior 1/6; parameres short, simply rounded at apices. Penis large, well sclerotized; dorsal piece longer than ventral piece, prolonged postero-dorsally, without serrae at apex on caudal end; proximal half of ventral piece U-shaped in ventral view, curved ventrally, pointed at caudal end.

Female. Unknown.



Figs. 2–9. *Sacodes shibatai* sp. nov., holotype; 2, sternites; 3, tergite VIII; 4, tergite IX; 5, sternite VIII; 6, sternite IX; 7, tegmen in ventral aspect; 8, penis in ventral aspect; 9, ditto in lateral aspect.

Measurements. Male (n = 1): TL 3.68 mm; PW 1.45 mm; PL 0.90 mm; EW 2.10 mm; EL 2.78 mm.

Distribution. Yakushima, Japan.

Remarks. This species is closely related to *Sacodes dux* (LEWIS) known from Hokkaidô (unpublished data), Honshû, Shikoku, Kyûshû and Tsushima. This differs from the latter in the following characteristics: 1) mesal part of pronotum black (evenly yellow in *dux*), 2) anterior margin of tergite VI with short apodemes (without apodemes in *dux*), 3)

apices of parameres simply rounded (concave in *dux*), 4) apex of dorsal piece without serrae (with a row of serrae, but rarely wanting in *dux*), 5) apex of ventral pieces curved ventrally and pointed at apex (directly projecting posteriorly and with a hook on ventral end in *dux*).

Etymology. The specific name is dedicated to the late Mr. Taichi SHIBATA.

Sacodes amamiensis (M. SATÔ, 1966)

Sacodes amamiensis: YOSHITOMI, 1997, 393; IMASAKA & YOSHITOMI, 2006, 20.

Specimen examined. 1♂, Nagata, Yakushima, 7. IV. 1965, M. YASUI leg.

Distribution. Kyûshû, Yakushima (new record), Amami-Ôshima, Tokuno-shima, Okinawa-jima, Kume-jima, Ishigaki-jima.

Sacodes minima (KLAUSNITZER, 1973)

Sacodes minima: YOSHITOMI, 1997, 396.

Specimens examined. 1♂, 1♀, Kosugidani, Yakushima, 5. IV. 1965, M. YASUI leg.

Distribution. Hokkaidô, Honshû, Shikoku, Kyûshû, Yakushima (new record); Kuril Archipelago (Kunashir Is.).

Acknowledgements

I thank the late Mr. Taichi SHIBATA, Dr. Kiyoshi ANDO, and Dr. Masahiro ÔHARA for their kind help in offering precious materials, and Dr. Satoshi HASHIMOTO for his critical reading of draft of the manuscript.

要 約

吉富 博之：屋久島からのキムネマルハナノミ属 *Sacodes* の1新種と2新記録種。 ——
キムネマルハナノミ属は、屋久島からこれまで *Sacodes nakanei* (KLAUSNITZER) コキムネマルハナノミの1種しか記録されていなかった。芝田太一コレクションの中に屋久島産の本属の標本を見出し、調査したところ、1新種 *Sacodes shibatai* sp. nov. ヤクキムネマルハナ

ノミ（新称）および2新記録種 *Sacodes amamiensis* (M. SATÔ) カタモンマルハナノミ, *Sacodes minima* (KLAUSNITZER) ヒメキムネマルハナノミを見出し, 本論文で記録した.

References

- IMASAKA, S., & H. YOSHITOMI, 2006. [Record of *Sacodes amamiensis* from the southern part of Kyûshû]. *Coleopterists' News, Tokyo*, (154): 20. (In Japanese.)
- YOSHITOMI, H., 1997. A revision of the Japanese species of the genera *Elodes* and *Sacodes* (Coleoptera, Scirtidae). *Elytra, Tokyo*, **25**: 349–417.
- 2005. Systematic revision of the family Scirtidae of Japan, with phylogeny, morphology and bionomics (Insecta: Coleoptera, Scirtoidea). *Japanese Journal of systematic Entomology, Monographic Series*, (3), 212 pp. Matsuyama.