A new species of the genus *Mescirtes* Motschulsky, 1863, (Coleoptera: Scirtidae: Scirtinae) from Vietnam, with a species list of the world

Hiroyuki Yoshitomi¹ & Bernhard Klausnitzer²


**Key words.** Scirtidae, *Mescirtes*, new species, new name, new record, species list, Vietnam.

INTRODUCTION

The genus *Mescirtes* Motschulsky, 1863, is represented by about 20 species from the Oriental and the Afrotropical Regions (see Appendix). Many of the species of this genus were described under the genera *Prionocyphon* and *Scirtes* erroneously, but the genus is clearly distinguishable from them by the external features and male genital structures (Ruta, 2010, 2014).

In the present paper, we describe a new species from the Oriental Region. In addition, a replacement name is proposed for *Mescirtes herthae* (Klausnitzer, 2009; not Klausnitzer, 2005), and species list with their associated ZooBank LSIDs is given.

MATERIAL AND METHODS

General observations and dissections were made under a Leica MZ95 stereomicroscope. Microstructures of dissected parts were studied in pure glycerine under an Olympus BH-2 compound microscope. After observation, the dissected parts were mounted on the same card with the specimen. Photographs were taken under a Leica MZ95 using a microscopy camera system (Nikon DS-Fi1-L2), and combined with the automontage software Combine ZM (Alan Hadley, UK).

The materials used in this paper are preserved in the following institutions: BPBM: Bishop Museum Honolulu, USA; TUA: Tokyo University of Agriculture, Atsugi, Japan; EUMJ: Ehime University Museum, Matsuyama, Japan.

The abbreviations for measurements used in this paper are as follows: TL: total length (PL + EL); PL: pronotal length in median line; PW: maximum width of pronotum; EL: elytral length in median line; EW: maximum width of elytra.

The genera and species including junior synonyms were registered to ZooBank by the first author (HY).

The replacement name *Mescirtes wasungenensis*, for *Prionocyphon* (*Orientoprionocyphon*) *herthae* Klausnitzer, 2009, a junior secondary homonym of *Scirtes herthae* Klausnitzer, 2005, now that both species are placed in the genus *Mescirtes* Motschulsky, 1863, is authored by B. Klausnitzer only and should be cited as *Mescirtes wasungenensis* Klausnitzer in Yoshitomi & Klausnitzer.

TAXONOMY

*Mescirtes Motschulsky, 1863*


*Mescirtes kojimai*, new species

(Figs. 1, 5–7)

**Type series.** Holotype: Male (TUA), “[Vietnam] Mt. Lang Biang Lam Dong Prov. 17 February 2011 Hiroaki Kojima leg.”

¹Entomological Laboratory, Faculty of Agriculture, Ehime University, Tarami 3-5-7, Matsuyama, 790-8566 Japan; Email: hymushi@agr.ehime-u.ac.jp (*corresponding author*)

²Member of Senckenberg Deutsches Entomologisches Institut, Lannerstraße 5, D-01219 Dresden Deutschland; Email: klausnitzer.col@t-online.de (197th contribution to the knowledge of Scirtidae)
Yoshitomi & Klausnitzer: new species of *Mescirtes* from Vietnam

**Figs. 1–4.** *Mescirtes* spp.: 1, *Mescirtes kojimai*, new species, holotype; 2–4, *Mescirtes wasungenensis* Klausnitzer, new name: 2, 3, from Thailand, male (2) and female (3); 4, from Laos, female. Scale bar = 1.0 mm.

**Description. Male.** Body oval, strongly convex dorsally, shiny, closely covered with yellowish-white setae. Coloration of head, pronotum, scutellar shield, elytra, and ventral part of thorax black; antennae, legs, elytral maculations, and abdominal ventrites yellowish-brown; elytral maculations consisting of two pairs of oblong spots and oblique zigzag stripe, forming semicircular.

Head large, flat dorsally, finely punctate; eyes large, prominent; the distance between eyes about 2.9 times as long as the maximum diameter of an eye. Antennae (antennomeres X and XI missing in holotype) slightly serrate in antennomeres IV–IX. Pronotum transverse, slightly convex dorsally, punctate as in head; anterior margin straight; lateral and posterior margins gently arcuate; antero- and postero-lateral corners obtuse; PW/PL 2.46. Elytra strongly convex dorsally, widest at the middle, closely and finely punctate; humeral parts slightly projecting dorso-laterally; EL/EW 1.13; EL/PL 3.71; EW/PW 1.34; TL/EW 1.43. Hind wings developed.

Tegmen (Fig. 5) oblong, with arcuate basal margin, widest at basal 1/4; parameres sparsely punctate, with obtuse apices. Penis (Figs. 6, 7) long, about 0.93 times as long as tegmen; pala oblong, widest near the base, straightly tapered apically; ventral projection long, anchor-shaped; dorsal projection long, bifid in apical part.

**Female.** Unknown.

**Measurement.** Holotype: TL 3.30 mm; PW 1.72 mm; PL 0.70 mm; EL 2.60 mm; EW 2.30 mm.

**Remarks.** This species is distinct in having unique elytral maculations (unicolored or with simple spots in the elytra of the other species of this genus) and anchor-shaped ventral projection.

**Etymology.** The species name is given for Dr. Hiroaki Kojima (TUA) who is a specialist of Curculionidae and the collector of the holotype.

**ADDITIONAL MATERIAL EXAMINED**

*Mescirtes armatolaosensis* Klausnitzer, 2012

*Mescirtes armatolaosensis* Klausnitzer, 2012: 70.

**Specimens examined.** 1 Male (BPBM), “LAOS: 800m Phou-kow-kuei N. of Vientiane 17 April 1965”, “J. L. Gressitt Collector BISHOP MUSEUM”.

**Distribution.** Laos.

**Mescirtes wasungenensis** Klausnitzer, replacement name

*Prionocyphon* (*Orientoprionocyphon*) *herthae* Klausnitzer, 2009: 106.

Specimens examined. 1 Female (BPBM), “LAOS: Vientian Prov. Ban Van Eue 15 May 1967”, “native collector RONDON – BISHOP MUS. COLLECTION”; 1 female (BPBM), ditto but collecting date “15 January 1967”; 1 female (Fig. 4: EUMJ), “[LA5] Phou Samsoum, Xieng Khouang Prov., 23–27 May 2013, N19 08.663 E103 48.083, 2157 m, H. Yoshitomi leg. by FIT”; 1 female (Fig. 4: EUMJ), “LAOS Ban Saleui, Houa Phan Prov. Alt. ca 1,400–1,500m 20–24. VI, 2003 N. Ohbayashi”; 1 ex. (EUMJ), “LAOS Mt. Phu- Pan Houa Phan Prov. Alt. ca 1,700–1,800m 17–20 June 2003 N. Ohbayashi”; 1 male, 1 female and 2 exs. (Fig. 3; BPBM), “THAILAND Chiangmai Prov.; Doi Suthep 1–5 April 1958”, “T. C. Maa Collector BISHOP”; 1 male (Fig. 2; BPBM), “THAILAND Chiang mai Prov.; Doi Stuthep 1–5 April 1958”, “T. C. Maa Collector BISHOP”.

Distribution. Laos, Thailand (new record).

Remarks. *Mescirtes wasungenensis* is proposed as a replacement name for for *Prionocyphon (Orientoprionocyphon) herthae* Klausnitzer, 2009, a junior secondary homonym of *Scirtes herthae* Klausnitzer, 2005, now that both species are placed in the genus *Mescirtes* Motschulsky, 1863. This replacement name is authored by B. Klausnitzer only and should be cited as *Mescirtes wasungenensis* Klausnitzer in Yoshitomi & Klausnitzer.

The specimens collected from Thailand (Figs. 2, 3) have different elytral maculation pattern from that of Laosian specimens (Fig. 4). After close examination of male genitalia, we concluded that these are infraspecific variation.

*Mescirtes herthae* (Klausnitzer, 2005)


Remarks. *Scirtes herthae* Klausnitzer, 2005 was transferred to the genus *Mescirtes* by Klausnitzer (2012), and the new name was given for this species by mistake.

*Mescirtes sp.*


ACKNOWLEDGEMENTS

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LITERATURE CITED


### APPENDIX

**Species list of the genus Mescirtes Motschulsky, 1863**

<table>
<thead>
<tr>
<th><strong>Species</strong></th>
<th><strong>Author</strong></th>
<th><strong>Location</strong></th>
<th><strong>Specimen Details</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Mescirtes brancuccii</strong> Klausnitzer, 2012</td>
<td>Thailand</td>
<td><a href="http://zoobank.org/urn:lsid:zoobank.org:act:B01AFBF4-4CEA-426F-AAAB7-DE86B5C77011">Zoobank</a></td>
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<tr>
<td><strong>Mescirtes camerunensis</strong> Ruta, 2014</td>
<td>Cameroon</td>
<td><a href="http://zoobank.org/urn:lsid:zoobank.org:act:2607DD66-FB4F-49C4-8A2F-012E15F88B3A">Zoobank</a></td>
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<td><strong>Mescirtes eberti</strong> Klausnitzer, 2013</td>
<td>Vietnam</td>
<td><a href="http://zoobank.org/urn:lsid:zoobank.org:act:578D6E91-F7AA-4C1D-9302-8CC2222EB3CA">Zoobank</a></td>
<td></td>
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<tr>
<td><strong>Mescirtes gagatinus</strong> Motschulsky, 1863</td>
<td>Sri Lanka</td>
<td><a href="http://zoobank.org/urn:lsid:zoobank.org:act:37541F52-FFD7-405D-9565-2F96148A9915">Zoobank</a></td>
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<tr>
<td><strong>Mescirtes herthae</strong> (Klausnitzer, 2005)</td>
<td>Thailand</td>
<td><a href="http://zoobank.org/urn:lsid:zoobank.org:act:932F35CB-8EBD-4431-9080-34DC88CAAC198">Zoobank</a></td>
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<td><strong>Mescirtes ibadanensis</strong> Ruta, 2014</td>
<td>Nigeria</td>
<td><a href="http://zoobank.org/urn:lsid:zoobank.org:act:9F0EEBC8-DDC7-4035-B1BF-78CF7968D4FB">Zoobank</a></td>
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<td><strong>Mescirtes krugerensis</strong> Ruta, 2014</td>
<td>South Africa</td>
<td><a href="http://zoobank.org/urn:lsid:zoobank.org:act:A61AA7EA-DE09-4C0F-9CBE-89A2F87AB405">Zoobank</a></td>
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<td><strong>Mescirtes rutai</strong> (Klausnitzer, 2009)</td>
<td>Malaysia (Malay Peninsula)</td>
<td><a href="http://zoobank.org/urn:lsid:zoobank.org:act:1DAF4FF7-AE32-4070-AD28-D01C816E657B">Zoobank</a></td>
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<td><strong>Mescirtes ruthmuellerae</strong> Ruta, 2014</td>
<td>South Africa</td>
<td><a href="http://zoobank.org/urn:lsid:zoobank.org:act:EBFB250C-733B-4A6C-B33B-A12CE4F87C24">Zoobank</a></td>
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<tr>
<td><strong>Mescirtes ruthsteuerae</strong> (Klausnitzer, 2009)</td>
<td>Nepal</td>
<td><a href="http://zoobank.org/urn:lsid:zoobank.org:act:2CE937D3-CD0D-46D0-852C-8B27A5955F78">Zoobank</a></td>
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<td><strong>Mescirtes sedlagi</strong> Klausnitzer, 2013</td>
<td>Laos</td>
<td><a href="http://zoobank.org/urn:lsid:zoobank.org:act:467783F2-DA1A-49A3-85BE-A5E678A12036">Zoobank</a></td>
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<td><strong>Mescirtes squamatilis</strong> Klausnitzer, 2013</td>
<td>China (Yunnan)</td>
<td><a href="http://zoobank.org/urn:lsid:zoobank.org:act:849CCF28-1D44-43AD-92C0-610471723E0E">Zoobank</a></td>
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<tr>
<td><strong>Mescirtes wasungenensis</strong> Klausnitzer, new name</td>
<td>Laos, Thailand</td>
<td><a href="http://zoobank.org/urn:lsid:zoobank.org:act:93BD6BA9-5CC0-49CB-80AC-768898B3E17E">Zoobank</a></td>
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