

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

Abstract. A new species, *Mescirtes kojimai*, is described from Vietnam. A replacement name, *Mescirtes wasungenensis* Klausnitzer, is given for *Mescirtes herthae* (Klausnitzer, 2009) (not Klausnitzer, 2005). A species list of the genus with their associated ZooBank LSIDs is given.

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 Motschulsky, 1863: 485. Type species: *Mescirtes gagatinus* Motschulsky, 1863 (by monotypy). <http://zoobank.org/urn:lsid:zoobank.org:act:EB0A246D-53F2-4C64-818E-3ABCAB864415>

Seydelicyphon Pic, 1955: 88. Type species: *Seydelicyphon nigrnotatum* Pic, 1955 (by monotypy). Synonymised by Ruta (2014). <http://zoobank.org/urn:lsid:zoobank.org:act:154A70DA-BFCF-48A7-9A47-C9281DF61127>

Orientoprionocyphon Klausnitzer, 2009: 105. Type species: *Prionocyphon yoshitomi* Klausnitzer, 2009 (by the original description). Synonymised by Ruta (2010). <http://zoobank.org/urn:lsid:zoobank.org:act:C4279FEA-F5EE-4486-9D45-21D726428053>

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, Tarumi 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)



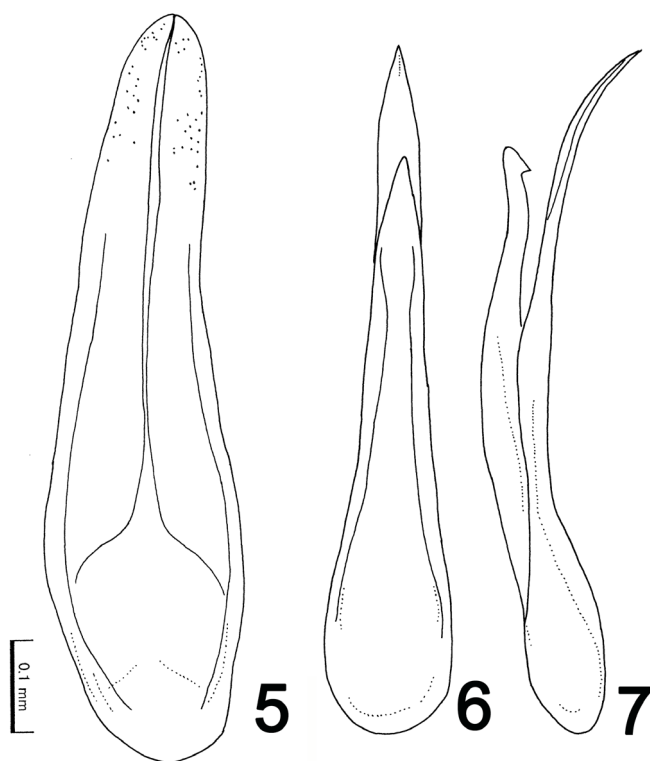
Figs. 1–4. *Mescirtes* spp.: 1, *Mescirtes kojimai*, new species, holotype; 2–4, *Mescirtes wasungenensis* Klausnitzer, new name: 2, 3, from Thailand, male (2) and female (3); 4, from Laos, female. Scale bar = 1.0 mm.

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.



Figs. 5–7. Male genitalia of *Mescirtes kojimai*, new species, holotype. 5, Tegmen in ventral view; 6, 7, penis in ventral (6) and lateral (7) views.

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.

Mescirtes herthae: Ruta, 2010: 58; Klausnitzer, 2012: 201 [additional description].

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 ex. (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 Laotian specimens (Fig. 4). After close examination of male genitalia, we concluded that these are infraspecific variation.

Mescirtes herthae (Klausnitzer, 2005)

Scirtes herthae Klausnitzer, 2005: 187.

Mescirtes herthaelisae Klausnitzer, 2012: 72 [new name for *Mescirtes herthae* (Klausnitzer, 2005)], **new synonym**.

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.

Specimen examined. 1 Female (BPBM), “VIET NAM: Fyan 1200m, 11. VII–9. VIII. ‘61”, “N. R. Spencer Collector BISHOP”.

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APPENDIX

Species list of the genus *Mescirtes* Motschulsky, 1863

<i>Mescirtes armatolaosensis</i> Klausnitzer, 2012	Laos
http://zoobank.org/urn:lsid:zoobank.org:act:BC535BCF-B408-4B2E-961F-513BEAEF2501	
<i>Mescirtes brancuccii</i> Klausnitzer, 2012	Thailand
http://zoobank.org/urn:lsid:zoobank.org:act:B01AFBF4-4CEA-426F-AAB7-DE86B5C77011	
<i>Mescirtes camerunensis</i> Ruta, 2014	Cameroon
http://zoobank.org/urn:lsid:zoobank.org:act:2607DD66-FBAF-49C4-8A2F-012E15F88B3A	
<i>Mescirtes eberti</i> Klausnitzer, 2013	Vietnam
http://zoobank.org/urn:lsid:zoobank.org:act:578D6E91-F7AA-4C1D-9302-8CC222EEB3CA	
<i>Mescirtes gaganinus</i> Motschulsky, 1863	Sri Lanka
http://zoobank.org/urn:lsid:zoobank.org:act:37541F52-FFD7-405D-9565-2F96148A9915	
<i>Mescirtes gudrunae</i> Klausnitzer, 2010	Vietnam
http://zoobank.org/urn:lsid:zoobank.org:act:EC083384-5491-46FC-8215-807625400F78	
<i>Mescirtes hansmalickyi</i> Klausnitzer, 2010	Vietnam, Laos
http://zoobank.org/urn:lsid:zoobank.org:act:2845D15C-43BC-4B43-AA97-FB8E9A9CA749	
<i>Mescirtes herthae</i> (Klausnitzer, 2005)	Thailand
http://zoobank.org/urn:lsid:zoobank.org:act:932F35CB-8EBD-4431-9080-34DCB8CAC198	
<i>Mescirtes ibadanensis</i> Ruta, 2014	Nigeria
http://zoobank.org/urn:lsid:zoobank.org:act:9F0EEBC8-DDC7-4035-B1BF-78CF7968D4FB	
<i>Mescirtes kojimai</i> , new specie	Vietnam
http://zoobank.org/urn:lsid:zoobank.org:act:52BD4630-983A-4C27-A449-D8F25D6048FC	
<i>Mescirtes krugerensis</i> Ruta, 2014	South Africa
http://zoobank.org/urn:lsid:zoobank.org:act:A61AA7EA-DE09-4C0F-9CBE-89A2F87AB405	
<i>Mescirtes laosensis</i> (Yoshitomi & Satô, 2003)	Laos, Thailand
http://zoobank.org/urn:lsid:zoobank.org:act:97BC17E3-7509-4C3A-B2F8-67F51C7513DD	
<i>Mescirtes minusculus</i> (Klausnitzer, 1980)	Vietnam
http://zoobank.org/urn:lsid:zoobank.org:act:ED2FB80A-D74C-45EC-AC41-67B8935EE651	
<i>Mescirtes nigronotatum</i> (Pic, 1955)	Congo
http://zoobank.org/urn:lsid:zoobank.org:act:888F0FA1-D196-46DE-AC25-57FB0BDDD779	
<i>Mescirtes rutai</i> (Klausnitzer, 2009)	Malaysia (Malay Peninsula)
http://zoobank.org/urn:lsid:zoobank.org:act:1DAF4FF7-AE32-4070-AD28-D01C816E657B	
<i>Mescirtes ruthmuelleri</i> Ruta, 2014	South Africa
http://zoobank.org/urn:lsid:zoobank.org:act:EBFB250C-733B-4A6C-B33B-A12CE4F87C24	
<i>Mescirtes ruthsteuerei</i> (Klausnitzer, 2009)	Nepal
http://zoobank.org/urn:lsid:zoobank.org:act:2CE937D3-CD0D-46D0-852C-8B27A5955F78	
<i>Mescirtes rutilicollis</i> Klausnitzer, 2012	Thailand
http://zoobank.org/urn:lsid:zoobank.org:act:F49BF99B-F44E-4B23-AFCE-A0B5525305CF	
<i>Mescirtes sedlagi</i> Klausnitzer, 2013	Laos
http://zoobank.org/urn:lsid:zoobank.org:act:467783F2-DA14-49A3-85BE-A5E678A12036	
<i>Mescirtes squamatilis</i> Klausnitzer, 2013	China (Yunnan)
http://zoobank.org/urn:lsid:zoobank.org:act:849CCF28-1D44-43AD-92C0-610471723E0E	
<i>Mescirtes wasungenensis</i> Klausnitzer, new name	Laos, Thailand
http://zoobank.org/urn:lsid:zoobank.org:act:93BD6BA9-5CC0-49CB-80AC-768898B3E178	
<i>Mescirtes weigeli</i> (Klausnitzer, 2009)	Nepal
http://zoobank.org/urn:lsid:zoobank.org:act:50E39E6F-66F4-4E53-96AD-3A6DFFA08EC7	
<i>Mescirtes yoshitomi</i> (Klausnitzer, 2009)	Sumatra
http://zoobank.org/urn:lsid:zoobank.org:act:CAA3CEC2-36AF-4AFF-8BCE-922B9BC823D4	