

Koleopterologische Rundschau	75	45–51	Wien, Juni 2005
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Two new species of *Anginopachria* WEWALKA, BALKE & HENDRICH from Malaysia and Thailand (Coleoptera: Dytiscidae)

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Abstract

Recent collections revealed two new species of *Anginopachria* WEWALKA, BALKE & HENDRICH, 2001, similar to *A. ullrichi* (BALKE & HENDRICH, 1999). They are described as *A. prudeki* sp.n. from Thailand and *A. schoedli* sp.n. from Malaysia, rising the number of known *Anginopachria* species to three.

Key words: Coleoptera, Dytiscidae, Hyphydrini, Malaysia, Thailand, *Anginopachria prudeki* sp.n., and *A. schoedli* sp.n.

Introduction

The genus *Anginopachria* was described by WEWALKA, BALKE & HENDRICH (2001) for *Allopachria ullrichi* BALKE & HENDRICH, 1999, an enigmatic Hyphydrini species. It markedly differs from all other known species of the tribe in having an elongate and dorso-ventrally flattened habitus, while all other Hyphydrini have a globular body (WEWALKA 2000: 125). This species, previously assigned to *Allopachria*, is only known from the Pahang Province of West Malaysia (BALKE, JÄCH & HENDRICH 2004). Two additional species of *Anginopachria* were recently discovered in Malaysia and Thailand and are here formally described. Thus, what appeared to be an isolated, highly derived species in 1999 is now regarded as a member of a genus with three species, suggesting that additional expert fieldwork might reveal more surprises.

Material

The study material which consists of 75 specimens of *Anginopachria ullrichi* and five specimens assigned to two new species is deposited in the following institutions and private collections:

CHB Coll. Hendrich, Berlin, Germany (property of NMW)
CWW Coll. Wewalka, Wien, Austria
NMB Naturhistorisches Museum Basel, Switzerland
NMPC Národní Muzeum Praha, Czech Republic
NMW Naturhistorisches Museum Wien, Austria

Anginopachria ullrichi (BALKE & HENDRICH, 1999)

Allopachria ullrichi BALKE & HENDRICH, 1999: 284 (orig. descr.).

Anginopachria ullrichi: WEWALKA, BALKE & HENDRICH 2001: 92.

Holotype ♂ (NMW): "26 XII 1994 MAL Pahang Prov. Kuala Lipis \ leg. et coll. G. Ullrich \ ♂". **Paratypes**: 3 exs., same label data as holotype (CHB).

ADDITIONAL MATERIAL STUDIED: 9 exs., Malaysia, Pahang, Benom Mts., 15 km E Kampong Dong, 3°53'N 102°01'E, 700 m, 1.IV.1998, leg. Dembický & Pacholátko (NMW, CWW); 34 exs., Malaysia, Pahang, Kuala Lipis env. Kenong Rimba Park, Kesong river, 5.VI.2001, leg. Kodada & Čiampor (NMW, CWW); 32 exs., Malaysia, Pahang, Taman Negara, Nusa Camp env. Tabong river, 13.IV.2001, leg. Kodada & Čiampor (NMW, CWW).

DIAGNOSIS: *Anginopachria ullrichi* is very similar to *A. prudeki* sp.n. in body form and size but can be distinguished by the coloration of elytra, male metatibia (with distinct denticle in *A. prudeki*) and male genitalia. From *A. schoedli* sp.n. it differs by the shape and size of its body; see Fig. 1 for habitus and coloration.

Size: total length of body: 1.70–1.80 mm, length of body without head: 1.50–1.55 mm, width: 0.70–0.80 mm.

Male genitalia: Fig. 4; male metafemur and metatibia: Fig. 7.

DISTRIBUTION: Malaysia, Pahang Province.

Anginopachria prudeki sp.n.

Holotype ♂ (NMPC): “THAILAND, Nan Prov. \ BAN HUA KON env. [= Ban Huai Kon, ca. 19°33'N, 101°04'E] \ 27. V. – 10. VI. 2002 \ P. Průdek & M. Obořil leg.”. **Paratypes**: 2 ♂♂, label data as in holotype (NMPC, NMW).

TYPE LOCALITY: Thailand, Nan Province.

DIAGNOSIS: *Anginopachria prudeki* sp.n. is very similar to *A. ullrichi* in body form and size but can be distinguished by the coloration of the elytra, the male metatibia and male genitalia. From *A. schoedli* sp.n. it differs in size and body form.

DESCRIPTION (of male): body elongate, apically slightly truncate, strongly flattened dorso-ventrally; pronotum trapezoid, broadest at posterior angles (Fig. 2).

Size: total length of body: 1.75–1.80 mm, length of body without head: 1.50–1.55 mm, width: 0.80–0.85 mm.

Colour: head and pronotum black, slightly ferruginous at posterior border; elytra testaceous, blackish basally and at suture on anterior third and with a large transverse blackish postmedian spot; ventral side blackish; legs and antennae rufo-testaceous.

Head relatively long; clypeal margin almost regularly rounded, without bead; punctures elongate, moderately strong and dense; without microreticulation.

Pronotum: lateral margins finely bordered, almost straight; punctures very fine and very dense; without microreticulation.

Elytra: punctures very fine and dense, with larger punctures sparsely interspersed; two longitudinal rows of strong punctures quite distinct and forming a groove; surface otherwise highly polished and shining; without microreticulation.

Male: penis bifurcate (Fig. 5a, b); parameres fused (Fig. 5c); antennae not modified; posterodistal angles of meso- and metafemur greatly produced backwards, shovel-shaped; metatibia with a distinct denticle medially (Fig. 8).

Female: unknown.

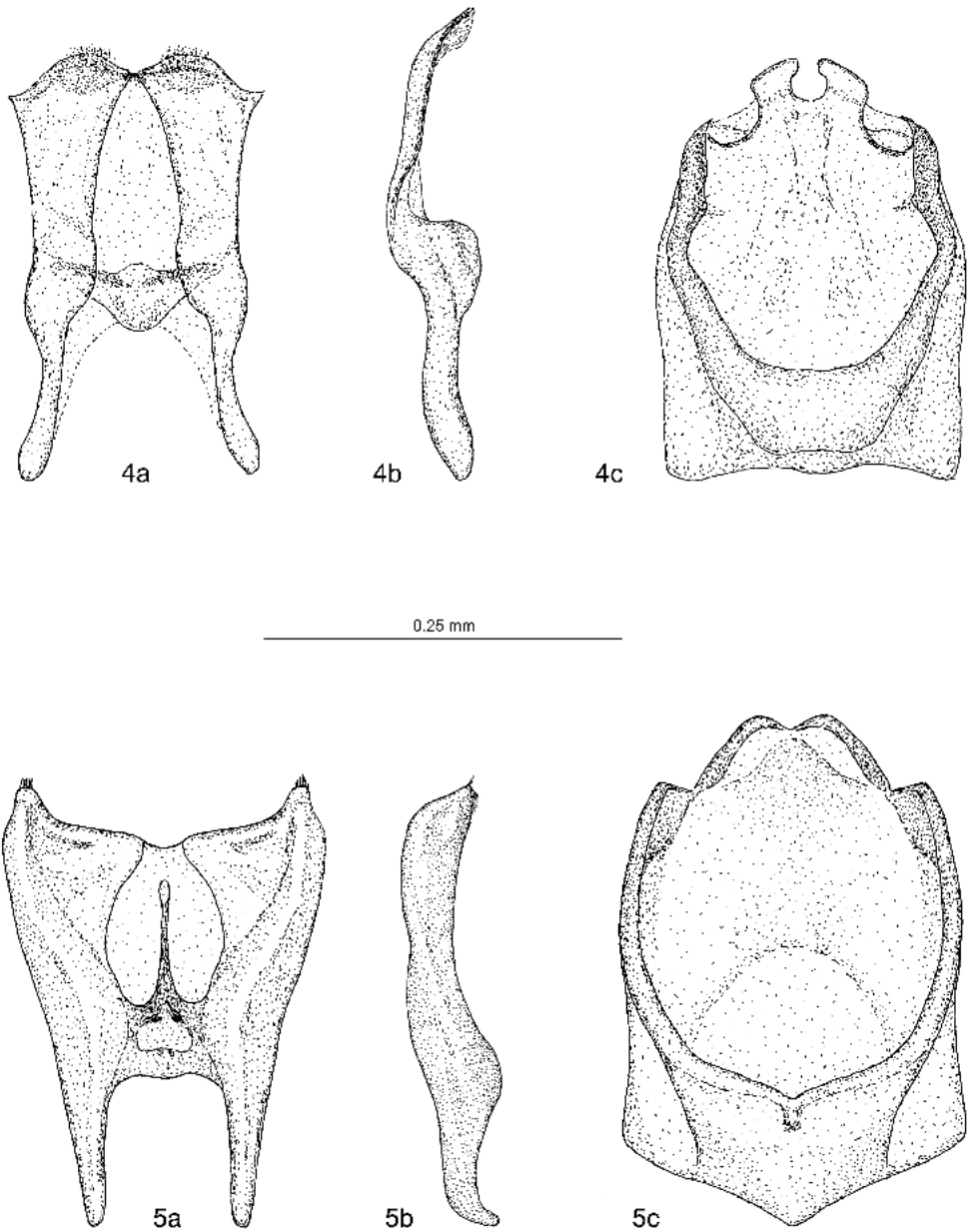
ETYMOLOGY: named after Pavel Průdek (Brno, Czech Republic), co-discoverer of this species and expert in Colydiidae.

HABITAT: unknown, the specimens most probably have been collected at light.

DISTRIBUTION: North Thailand, Nan Province.



Figs. 1–3: Habitus of *Anginopachria*; 1) *A. ullrichi*, male specimen from type locality, 1.75 mm; 2) *A. prudeki* sp.n., holotype, male, 1.75 mm; 3) *A. schoedli* sp.n., paratype, female, 1.40 mm. Photographs: Dr. H. Schillhammer.



Figs. 4–5: Male genitalia; a) penis, dorsal view, b) penis, lateral view, c) parameres, ventral view; 4) *Anginopachria ullrichi*; 5) *A. prudeki* sp.n.

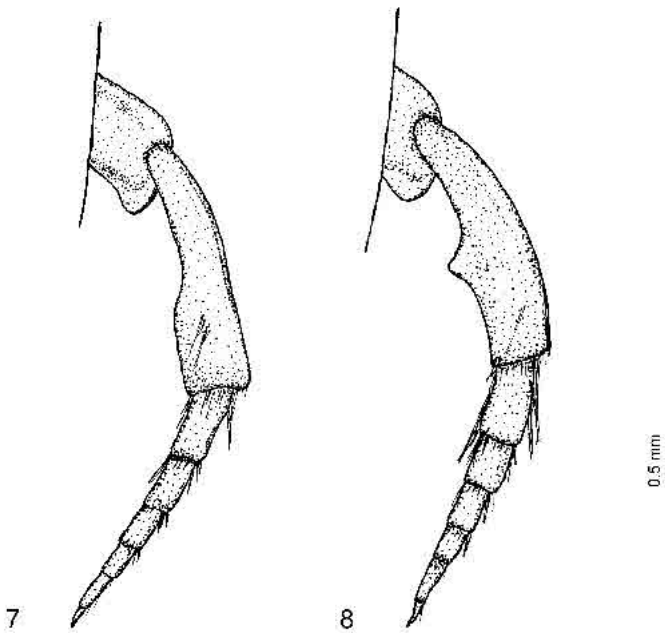
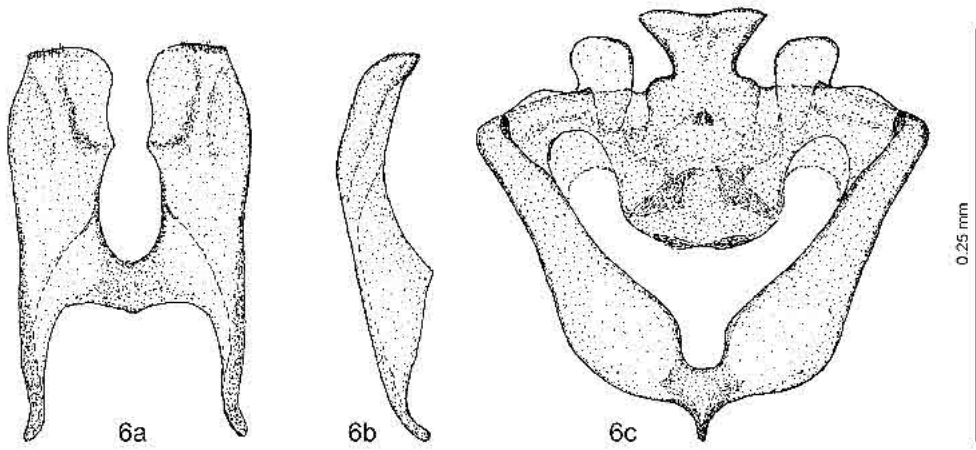


Fig. 6: Male genitalia of *Anginopachria schoedli* sp.n; a) penis, dorsal view, b) penis, lateral view, c) parameres, ventral view.

Figs. 7–8: Metafemur and metatibia of male; 7) *A. ullrichi*; 8) *A. prudeki* sp.n.

***Anginopachria schoedli* sp.n.**

Holotype ♂ (NMB): “MALAYSIA; JOHOR; 50-400 m \ Endau-Rompin; 19.iii.1998 \ Palau Jasin; 2,31N 103,21E \ Dembický & Pacholátko leg.”. **Paratype**: 1 ♀, “Malaysia, Pahang, Kuala \ Lipis env., Hutan Lipur \ Terenggun, 4. VI. 2001”, leg. Kodada & Čiampor (NMW).

TYPE LOCALITY: Malaysia, Johor Province.

DIAGNOSIS: *Anginopachria schoedli* sp.n. differs from *A. ullrichi* and *A. prudeki* sp.n. in shape of body, smaller size and coloration of the elytra.

DESCRIPTION: body elongate, apically rounded, strongly flattened dorso-ventrally; pronotum allusively heart shaped, broadest at anterior third (Fig. 3).

Size: total length of body: 1.40–1.47 mm, length of body without head: 1.15–1.25 mm, width: 0.60–0.65 mm.

Colour: head rufo-testaceous; pronotum testaceous; elytra testaceous with a large vague transverse ferruginous postmedian spot and ferruginous at the suture on anterior third; ventral side ferruginous; legs and antennae rufo-testaceous.

Head relatively long; clypeal margin almost regularly rounded, without bead; microreticulation distinct; no punctures visible.

Pronotum: lateral margins distinctly bordered, distinctly rounded at anterior half; microreticulation distinct; some punctures visible near anterior margin.

Elytra: punctures dense and fine, often elongate, stronger punctures sparsely interspersed; one longitudinal row of strong punctures forming shallow groove on anterior third; without microreticulation.

Male: penis bifurcate (Fig. 6a, b); parameres fused (Fig. 6c); antennae not modified; postero-distal angles of meso- and metafemur greatly produced backwards, shovel-shaped; meso- and metatibia slightly broadened and curved.

Female: microreticulation on head and pronotum slightly more impressed.

ETYMOLOGY: named after Dr. Stefan Schödl (Vienna), who passed away much too early.

HABITAT: small pool with sandy bottom near a brook (Ján Kodada, pers. comm.).

DISTRIBUTION: Malaysia, Johor and Pahang Provinces.

Acknowledgements

We thank Dr. Ján Kodada (Bratislava) for additional information and Dr. Harald Schillhammer (Vienna) for providing photographs of the specimens. Financial support of the European Community's programme “Structuring the European Research Area” under SYNTHESYS at the Museo Nacional de Ciencias Naturales (CSIC), contract number ES-TAF 193 as well as the Natural History Museum Vienna AT-TAF 223 is greatly acknowledged by Dr. Michael Balke. Mgr. Jiří Hájek is obliged to the Ministry of Culture of the Czech Republic (research programme MK 00002327201).

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Jahr/Year: 2005

Band/Volume: [75_2005](#)

Autor(en)/Author(s): Wewalka Günther, Balke Michael, Hajek Jiri, Hendrich Lars

Artikel/Article: [Two new species of Anginopachria WEWALKA, BALKE & HENDRICH from Malaysia and Thailand \(Coleoptera: Dytiscidae\). 45-51](#)