

# 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; postero-distal angles of meso- and metafemur greatly produced backwards, shovel-shaped; metatibia with a distinct denticle medially (Fig. 8).

Female: unknown.

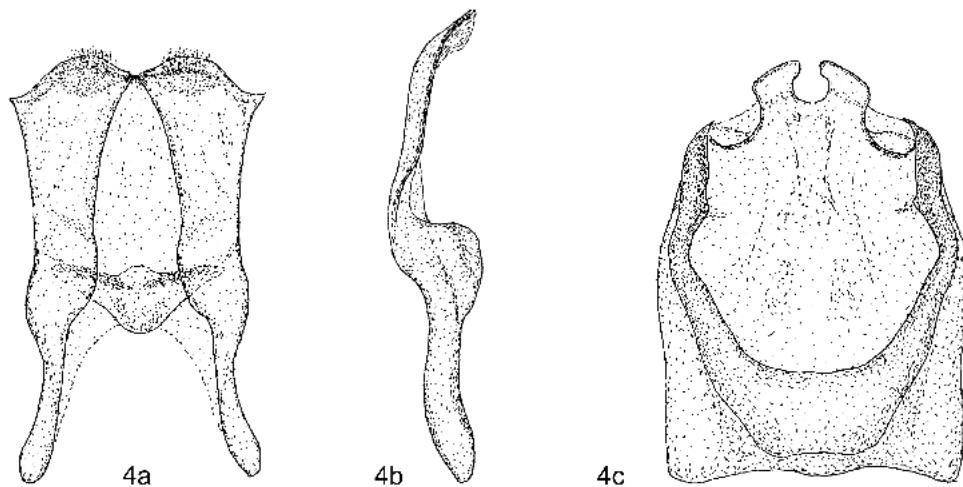
ETYMOLOGY: named after Pavel Průdek (Brno, Czech Republic), co-discoverer of this species and expert in Colydiidae.

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.

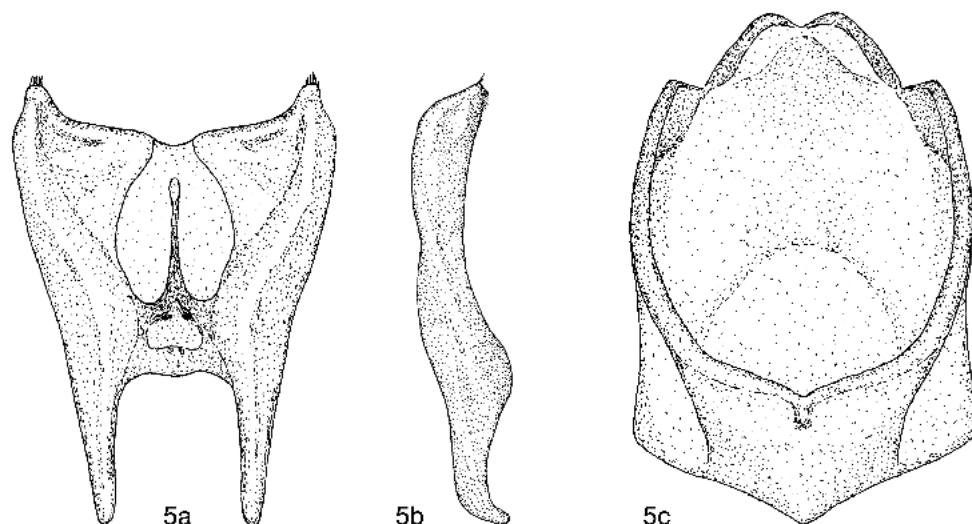


4a

4b

4c

0.25 mm



5a

5b

5c

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.

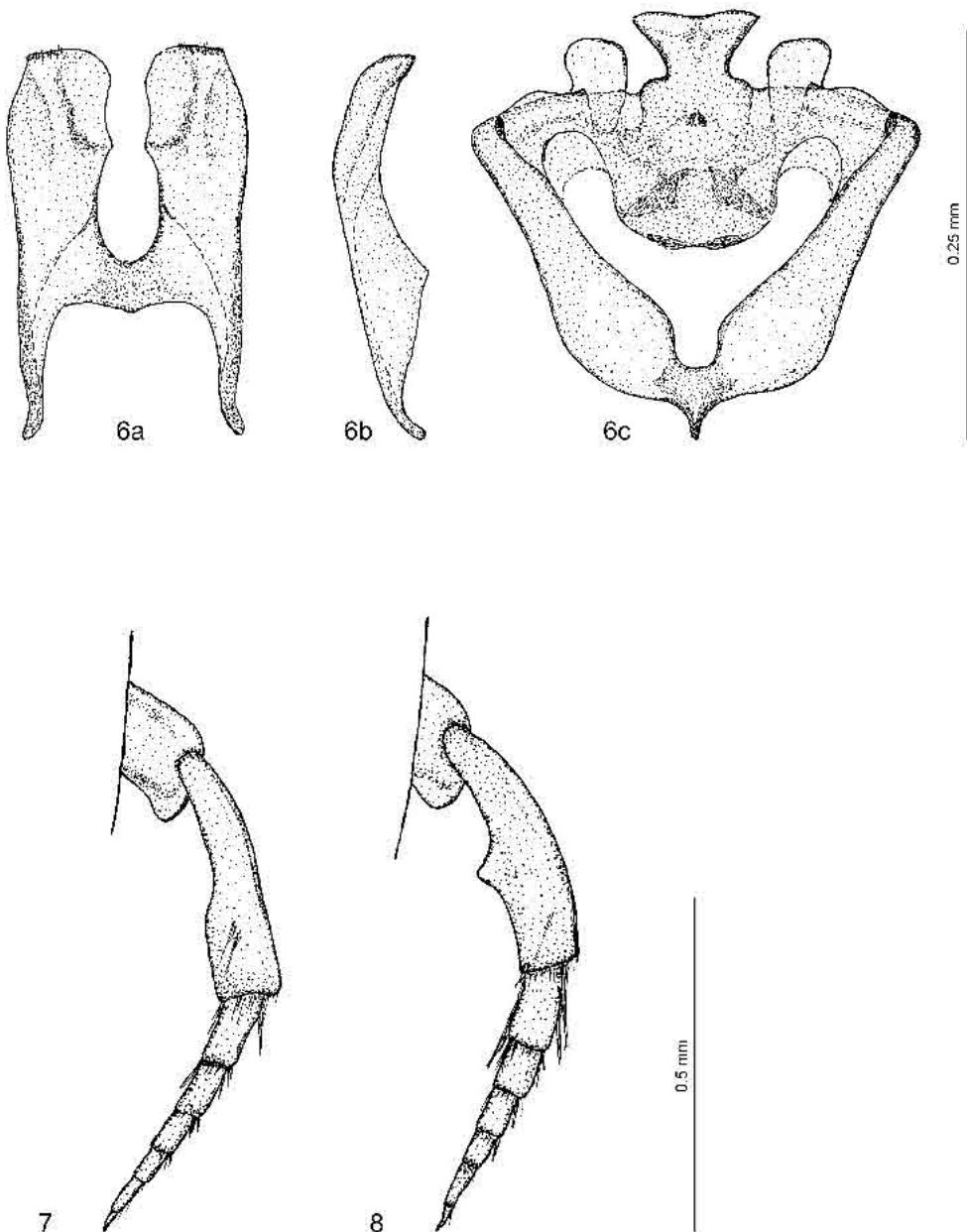


Fig. 6: Male genitalia of *Anginopachria schoedli* sp.n; a) penis, dorsal view, b) penis, lateral view, c) parameres, ventral view.

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 \ Terengganu, 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.

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## References

- BALKE, M. & HENDRICH, L. 1999: An enigmatic new species of *Allopachria* Zimmermann, 1924 from Malaysia (Coleoptera: Dytiscidae). – The Raffles Bulletin of Zoology 47 (1): 283–286.
- BALKE, M., JÄCH, M.A. & HENDRICH, L. 2004: Coleoptera, pp. 555–609. – In: Yule, C.M. & Yong, H.S. (eds.): Freshwater Invertebrates of the Malaysian Region. – Kuala Lumpur: Akademi Sains Malaysia.
- WEWALKA, G. 2000: Taxonomic revision of *Allopachria* Zimmermann (Coleoptera, Dytiscidae). – Entomological Problems 31 (2): 97–128.
- WEWALKA, G., BALKE, M. & HENDRICH, L. 2001: *Anginopachria*, a new genus for an enigmatic species previously assigned to *Allopachria* (Coleoptera: Dytiscidae). – Entomological Problems 32 (1): 91–92.

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