

Three new species of Meconematini from tropical Asia (Orthoptera: Tettigoniidae: Meconematinae)

A.V. Gorochov

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Three new Indo-Malayan species, discovered in the collection of Zoological Institute (St.Petersburg) and either clearly or probably belonging to the genus *Xiphidiopsis*, are described.

A.V. Gorochov, Zoological Institute, Russian Academy of Sciences, Universitetskaya nab. 1, St.Petersburg 199034, Russia.

Xiphidiopsis (*Xiphidiopsis*) *elefan* sp. n.

Holotype. ♀, **Cambodia**, 10-15 km NEE of Sihanoukville, environs of waterfall, 200 m, forest, at night, 11-12.IX.2003, A. Gorochov (Zoological Institute, St.Petersburg).

Paratypes. **Cambodia**: 2 ♀, central part of Elefan Mts., Styeng-Chkhral (100 km NE of Sihanoukville), 300-500 m, forest, 27.VIII-6.IX.2003, A. Gorochov & L. Anisyutkin (Zoological Institute, St.Petersburg).

Description. Female (holotype). Very similar to *X. (X.) amnicola* Gor. in coloration and shape of body parts (Gorochov, 1998), but distinguished by following characters: dark marks more distinct (stripe along anal tegminal edge darker, brown; sparse brown tegminal dots distinctly larger, each of them occupying most part of cell; blackish dots on both ventral apical lobes of hind femora slightly larger); genital plate smaller (distinctly narrower than abdominal apex), with differently-shaped hind edge and characteristic outlines in profile (Figs 1-4); ovipositor with acute apex (almost without hook at apex of ventral valves; in *X. amnicola*, this hook slightly more distinct).

Variation. Antennal flagellum sometimes with more distinct (brown) spots.

Male unknown.

Length (mm). Body 9-10; body with wings 21-23; pronotum 3.2-3.5; tegmina 17-18.5; hind femora 10-11.3; ovipositor 7.5-8.5.

Xiphidiopsis? *hoabinh* sp. n.

Holotype. ♀, **Vietnam**, *Hoa Binh Prov.*, Mai Chau Distr., Pa Co, 20°44'N, 104°55'E, 1120 m, 22-24.IV.2002, S. Belokobylskij (Zoological Institute, St.Petersburg).

Description. Female. Similar to representatives of *Xiphidiopsis*, but distinguished by following combina-

tion of characters: coloration yellowish with several brownish spots on antennae (except scapes), brownish spot on base of each spine of fore tibiae, several brown spots on tegmina, and a pair of blackish spots on apical part of middle and hind femora; pronotum almost without humeral notches; all wings extending only to abdominal apex; genital plate characteristically-shaped (Fig. 5), with angular apex; ovipositor with rounded lobe-like convexity on base of each ventral valve (Fig. 5) and acute apex (almost without hook at apex of ventral valves).

Male unknown.

Length (mm). Body 14; body with wings 15; pronotum 4.4; tegmina 11; hind femora 11.2; ovipositor 9.5.

Xiphidiopsis? *madras* sp. n.

Holotype. ♀, **India**, Madras, Coimbatore, 20.XII.1957, N. Alexandrov (Zoological Institute, St.Petersburg).

Description. Female. General appearance typical of *Xiphidiopsis*, with following differences from true and possible congeners: coloration greenish with only a pair of yellowish parallel stripes on pronotal disc (along its lateral edges); dorsal part of head rostrum with distinct median furrow; genital plate similar to that of *X. ? greeni* Uv., but with distinctly smaller apical notch (Figs 6, 7); ovipositor with well-developed hook at apex of ventral valves.

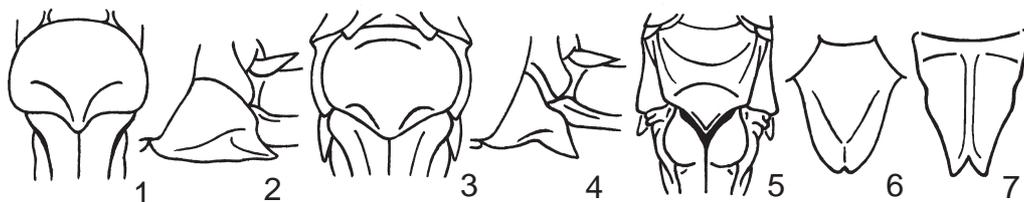
Male unknown.

Length (mm). Body 10.5; body with wings 21; pronotum 3.3; tegmina 16; hind femora 9.2; ovipositor 7.

References

Gorochov, A.V. 1998. New and little-known Meconematinae of the tribes Meconematini and Phlugidini (Orthoptera: Tettigoniidae). *Zoosyst. Ross.*, **7**(1): 101-131.

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Figs 1-7. Female. **1, 2**, *Xiphidiopsis amnicola* Gor. (paratype); **3, 4**, *X. elefan* sp. n. (holotype); **5**, *X. ? hoabinh* sp. n.; **6**, *X. ? madras* sp. n.; **7**, *X. ? greeni* Uv. (paratype). Abdominal apex and base of ovipositor from below (1, 3, 5) and from side (2, 4); genital plate from below (6, 7).