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New species and new faunistic records of Heteroceridae from Myanmar (Coleoptera: Heteroceridae)

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Abstract

Augyles schillhammeri sp.n. and *A. myanmarus* sp.n. (Coleoptera: Heteroceridae) from Myanmar (Burma) are described and illustrated in the paper. *Heterocerus fulvipes* MILLER, 1995 and *H. lorenzevae* MASCAGNI, 1993 are reported from Myanmar for the first time.

Key words: Coleoptera, Heteroceridae, taxonomy, new species, new records, Myanmar.

Introduction

Nine species of the family Heteroceridae were known from Myanmar (MASCAGNI 1995, 1999). In a collection made by Dr. Harry Schillhammer and Rudolf Schuh in Myanmar (Burma), eight species of Heteroceridae were found, among them two species new for science: *Augyles schillhammeri* sp.n. and *A. myanmarus* sp.n. Both species are described below. The collection of the following six heterocerid species is discussed in the paper: *Heterocerus fulvipes* MILLER, 1995, *H. nepalensis* MASCAGNI, 1993, *H. lorenzevae* MASCAGNI, 1993, *A. grohmanni* (MASCAGNI, 1987), *A. manfredjaechi* (MASCAGNI, 1995) and an unidentifiable female of *Augyles* sp. *Heterocerus fulvipes* and *H. lorenzevae* are reported from Myanmar for the first time; thus the number of known heterocerid species from Myanmar increases to 13.

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Taxonomy

Augyles schillhammeri sp.n.

TYPE LOCALITY: Myanmar: Sagaing Division, Chatthin Wildlife Sanctuary, 23°32'05"N, 95°38'53"E.

TYPE MATERIAL: Holotype ♂: "MYANMAR: Sagaing Division Chatthin Wildlife Sanctuary 23°32'05"N, 95°38'53"E ca. 200m 5.-17.10.1998 light leg. Schillhammer (1)". Allotype ♀: same data as holotype. Paratypes: 234 specimens, same data as holotype. Holotype, allotype and 229 paratypes are deposited in the Naturhistorisches Museum Wien, Austria, 5 paratypes are housed in the author's collection.

DESCRIPTION: Holotype ♂: Total length 2.40 mm; elytra 1.35 mm long, 0.90 mm wide across shoulders. Ground color dark brown; pronotum and elytra with pale brown pattern (Fig. 1);

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mandibles rusty-brown with darker lateral margins; antennomeres 1 - 4 pale brown, club of antennae brown; legs pale brown. Mandibles dentate with acute apex. Labrum almost square, anterior angles rounded; dense, yellowish setae laterally. Antennae 11-segmented, with 7-segmented apical club; antennomeres 1 and 2 with sparse, long setae. Clypeus without a pair of anterior horns; with dense, short, pale setae. Head finely punctate; setae dense, short. Pronotum oblong, slightly wider than base of elytra, softly granulated; pronotal base completely rimmed; setae of pronotum yellowish, short and adjacent, longer and erected laterally. Scutellum pointed, triangular. Elytra with few slight longitudinal ridges, with humeral depressions; surface finely granulated; epipleura without epipleural ridges. Setae on elytra yellowish, short and adjacent. Ventral surface sparsely setose. Metasternum with a post-mesocoxal ridge. Mesosternum with a pair of prominent spines in front of each mesocoxa. Post-metacoxal line present. Stridulatory arch marked with striae. Tibiae densely setose. Protibia with 11 stout spines, meso- and metatibia with 9 weak spines. Spiculum gastrale (Fig. 2) V-shaped. Aedeagus (Figs. 3 - 5) 0.6 mm long; vaginate; parameres very short and fused together, supporting sheath without border posteriorly; penis without processus accessorius.

Allotype ♀: Total length 2.60 mm; elytra 1.55 mm long, 0.90 mm wide across shoulders. Mandibles robust. Externally similar to male.

Variability: Total length 1.9 mm to 2.6 mm (both sexes). Mean length about 2.1 mm. The ground color, the elytral pattern and its color are very variable, in some instances the pattern is very faint. Ground color in the type series is pale brown to black-brown. The most frequent patterns are illustrated in Figs. 6 - 9. Elytral longitudinal ridges are barely present in some paratypes.

DIFFERENTIAL DIAGNOSIS: Due to the shape of the aedeagus (and other characters such as the presence of the post-metacoxal ridge, clypeus without horns, 11-segmented antennae), *A. schillhammeri* sp.n. is near to *A. gabriellae* (MASCAGNI, 1993) described from Thailand and recently reported from Nepal (SKALICKÝ 1998). *Augyles schillhammeri* sp.n. differs from *A. gabriellae* by its smaller size (*A. gabriellae* is 2.7 – 3.4 mm long), the more anteriorly rounded pronotum, the color of setae, the number of spines on tibiae and by the structure of male genitalia (compare Fig. 4 in MASCAGNI (1993) and Fig. 3). The color and shape of elytral pattern is very variable in *A. schillhammeri* and it cannot be regarded as a reliable distinguishing character.

DISTRIBUTION: So far known only from the type locality.

ECOLOGY: All specimens were collected at light; the light source was set up in secondary lowland forest on sandy soil.

ETYMOLOGY: Named after Dr. Harry Schillhammer (Vienna, Austria) who collected the type series.

Augyles myanmarus sp.n.

TYPE LOCALITY: Myanmar: Sagaing Division, Chatthin Wildlife Sanctuary, 23°32'05"N, 95°38'53"E.

TYPE MATERIAL: Holotype ♂: "MYANMAR: Sagaing Division Chatthin Wildlife Sanctuary 23°32'05"N, 95°38'53"E ca. 200m 5.-17.10.1998 light leg. Schillhammer (1)". Deposited in the Naturhistorisches Museum Wien, Austria.

DESCRIPTION: Holotype ♂: Total length 2.4 mm; elytra 1.5 mm long, 0.9 mm wide across shoulders.

Ground color dark brown; pronotum and elytra with red-brown pattern (Fig. 10); mandibles rusty-brown with darker lateral margins; antennae and legs pale brown. Mandibles dentate with acute apex. Antennae 11-segmented, with 7-segmented apical club; antennomeres 1 and 2 with

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sparse, long setae. Clypeus without a pair of anterior horns; with dense, short, pale setae. Pronotum slightly wider than base of elytra; pronotal base completely rimmed. Setae of pronotum yellowish, short and adjacent, longer and erected laterally. Elytra convex, without longitudinal ridges, with humeral depressions. Pronotum and elytra more roughly granulated. Setae on elytra yellowish, short and adjacent. Ventral surface sparsely setose. Metasternum with a post-mesocoxal ridge. Mesosternum indistinctly tuberculate in front of each mesocoxa. Post-metacoxal line present. Stridulatory arch marked with striae. Tibiae densely setose. Protibia with 8 stout spines, mesotibiae with 7 and metatibia with 6 weak spines. Spiculum gastrale (Fig. 11) V-shaped. Aedeagus (Fig. 12) 0.75 mm long, partly sclerotized; pronouncedly elongate; parameres fused together and the basal parts distinctly separated from each other.

Female unknown.

DIFFERENTIAL DIAGNOSIS: Due to the shape of the aedeagus (parameres and basal parts distinctly separated from each other, simple penis without sac) and other features, *A. myanmarus* sp.n. belongs to the *A. parvus* group sensu CHARPENTIER (1965). It is probably related to *A. parvus* (GROUVELLE, 1909) from which it differs in color and shape of the elytral and pronotal pattern and in the morphology of the male genitalia (compare Fig. 124 in CHARPENTIER (1965) and Fig.12).

DISTRIBUTION: So far known only from the type locality.

ECOLOGY: The specimen was collected at light; the light source was set up in secondary lowland forest on sandy soil.

ETYMOLOGY: The new species is named after the country of its origin.

Distributional notes

All specimens are deposited in the Naturhistorisches Museum Wien, Austria. Separate labels are indicated by double slashes.

Heterocerus fulvipes MILLER, 1995

MATERIAL EXAMINED: 154 exs., "MYANMAR: Sagaing Division Chatthin Wildlife Sanctuary 23°32'05"N, 95°38'53"E ca. 200m 5.-17.10.1998 light leg. Schillhammer (1)"; 1 ex., "MYANMAR: Kachin State Indawgyi Lake 7 km S Lonton vill. 25°05.85'N 96°17.28'E 20.-25.5.1999 ca 250 m // lake shore leg. Schillhammer & Schuh (50)"; 6 exs., "MYANMAR: Kachin State Indawgyi Lake 7 km S Lonton 25°02.42'N 96°16.52'E 21.5.1999 ca. 250 m // at light leg. Schillhammer & Schuh (51 c)"; 1 ex., "MYANMAR: Kachin State Indawgyi Lake 7 km S Lonton 25°02.42'N 96°16.52'E 22.-25.5.1999 ca. 250 m // rainwater potholes leg. Schillhammer & Schuh (51f)".

DISTRIBUTION: Nepal (MILLER 1995), Myanmar (first record).

Heterocerus nepalensis MASCAGNI, 1993

MATERIAL EXAMINED: 8 exs., "MYANMAR: Sagaing Division Chatthin Wildlife Sanctuary 23°32'05"N, 95°38'53"E ca. 200m 5.-17.10.1998 light leg. Schillhammer (1)".

DISTRIBUTION: China, India, Myanmar, Nepal, Sumatra, Thailand, Vietnam (MASCAGNI 1999).

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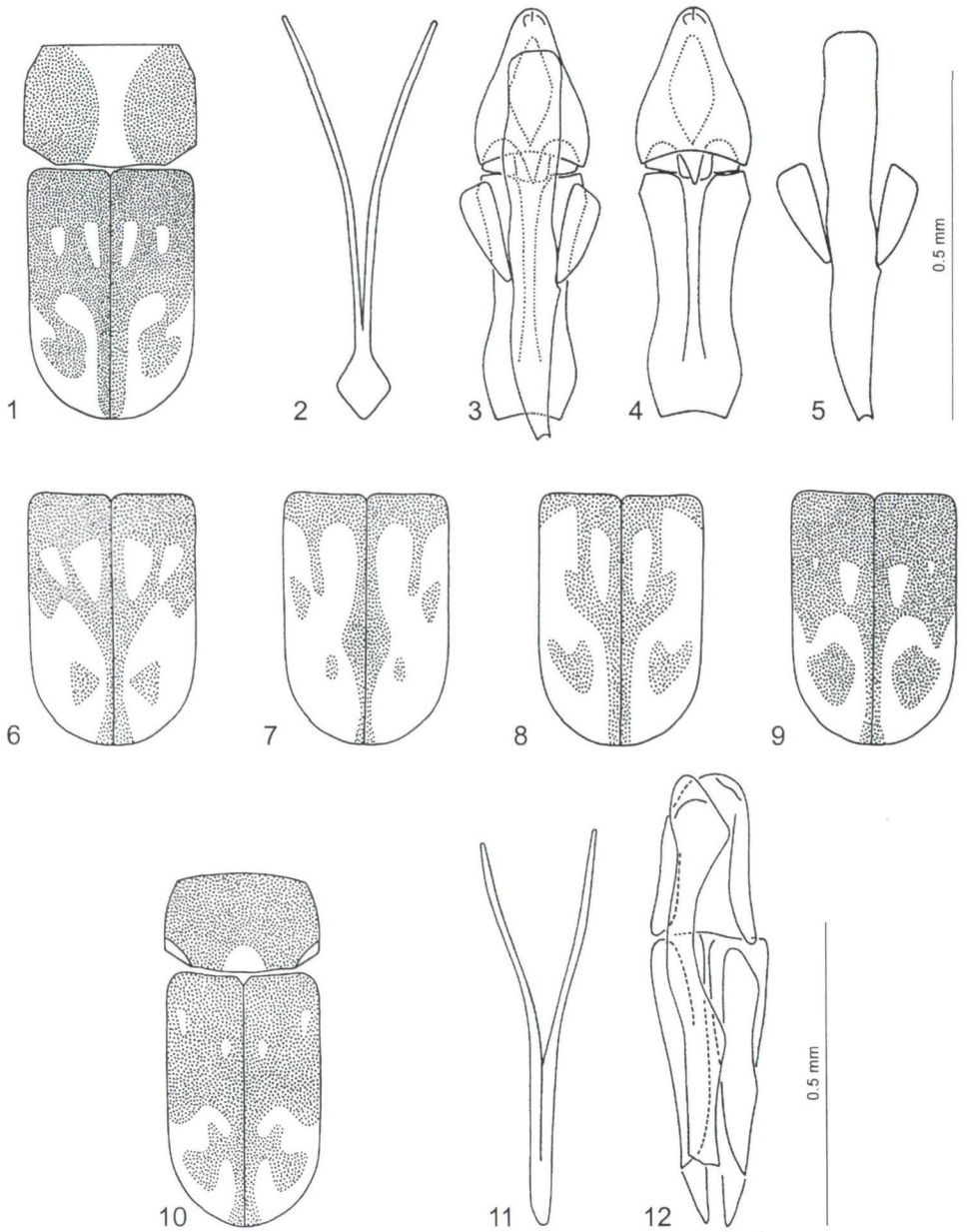

Figs. 1 - 5: *Augyles schillhammeri* sp.n., holotype: 1) pronotum and elytra, dorsal view; 2) spiculum gastrale, dorsal view; 3) aedeagus, dorsal view; 4) tegmen, dorsal view; 5) penis, dorsal view.

Figs. 6 - 9: *Augyles schillhammeri* sp.n., paratypes, variability of elytral pattern.

Figs. 10 - 12: *Augyles myanmarus* sp.n., holotype: 10) pronotum and elytra, dorsal view; 11) spiculum gastrale, dorsal view, 12) aedeagus, dorsal view.

Figs. 1, 6 - 10 not to scale.

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Heterocerus lorenzevae MASCAGNI, 1993

MATERIAL EXAMINED: 6 exs., "MYANMAR: Kachin State Indawgyi Lake 7 km S Lonton 25°02.42'N 96°16.52'E 22.-25.5.1999 ca. 250 m // rainwater potholes leg. Schillhammer & Schuh (51f)"; 5 exs., "MYANMAR: Kachin State Indawgyi Lake 7 km S Lonton vill. 25°05.85'N 96°17.28'E 20.-25.5.1999 ca. 250 m // lake shore leg. Schillhammer & Schuh (50)"; 5 exs., "MYANMAR: Kachin State Indawgyi Lake 7 km S Lonton 25°02.42'N 96°16.52'E 21.5.1999 ca. 250 m // at light leg. Schillhammer & Schuh (51 c)".

DISTRIBUTION: Bangladesh, India, Thailand (MASCAGNI 1995, 1999), Myanmar (first record).

Augyles grohmanni (MASCAGNI, 1987)

MATERIAL EXAMINED: 1 ex., "MYANMAR: Mandalay Div. Mandalay Mandalay Hill 17.5.1999 leg. Schuh & Schillhammer (47)"; 4 exs., "MYANMAR: Kachin State Myitkyina Sumpra Hotel 26.-27.5.1999 at light leg. Schuh & Schillhammer (55)".

DISTRIBUTION: Myanmar (MASCAGNI 1995).

Augyles manfredjaechi (MASCAGNI, 1995)

MATERIAL EXAMINED: 3 exs., "MYANMAR: Kachin State Indawgyi Lake 7 km S Lonton 25°02.42'N 96°16.52'E 21.5.1999 ca. 250 m // at light leg. Schillhammer & Schuh (51 c)".

DISTRIBUTION: Bangladesh, China, India, Myanmar, Nepal (MASCAGNI 1995, 1999).

Augyles sp.

MATERIAL EXAMINED: 1 ex. (female), "MYANMAR: Sagaing Division Chatthin Wildlife Sanctuary 23°32'05"N, 95°38'53"E ca. 200m 5.-17.10.1998 light leg. Schillhammer (1)".

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