

***Augyles barborae* sp.n. from Lantau Island (Hong Kong), and new faunistic records of Heteroceridae from Hong Kong (Coleoptera: Heteroceridae)**

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Abstract

Augyles barborae sp.n. (Coleoptera: Heteroceridae) is described from Lantau Island (Hong Kong). *Augyles manfredjaechi* MASCAGNI is recorded from Hong Kong for the first time. The occurrence of *Heterocerus fenestratus* THUNBERG in Hong Kong is confirmed. A key to the Heteroceridae from Hong Kong is presented.

Key words: Coleoptera, Heteroceridae, new species, new records, Hong Kong, Lantau Island.

Introduction

The Heteroceridae of Hong Kong have been rather poorly studied so far. The first record was provided by MASCAGNI (1995), who listed *Heterocerus nepalensis* MASCAGNI, 1993, collected in Tai Po Kau. SKALICKÝ (2010) added *H. astoni* SKALICKÝ, 2010, *H. maindroni* GROUVELLE, 1903, *H. virgatus* MAMITZA, 1933, and, with a question mark, *H. fenestratus* THUNBERG.

Recently I studied material from Lantau Island collected by Mojžíš in 2010. Besides *H. virgatus* MAMITZA, 1933, this material included one species new for Hong Kong and one species new for science. The latter is described herein.

In addition, I studied some Heteroceridae collected by Macek and Aston in Hong Kong. These specimens are also listed below.

The following acronyms are used in the text to indicate the depository of the material examined:

| | |
|-----|--|
| CAH | Coll. Paul Aston, Hong Kong |
| CSU | Coll. S. Skalický, Ústí nad Orlicí, Czech Republic |
| NMW | Naturhistorisches Museum Wien, Austria |

Augyles barborae sp.n. (Figs. 1–7)

TYPE MATERIAL: **Holotype** ♂ (CSU): “Hong Kong, Lantau Isl. 6 kn [km] N of Mui Wo 3.vii.2010; UV trap Mojžíš lgt.” [yellow label].

DESCRIPTION: Holotype ♂: Total length 3.50 mm (incl. labrum); elytra 2.00 mm long, 1.25 mm wide across shoulders. Ground colour like brown sugar, elytra and pronotum with pale brown pattern as in Fig. 1. Ventral surface pale brown. Labrum as wide as long, front margin pointed and finely serrate; surface finely granular, setae coarse, semi erect, with intermixed longer erect setae. Mandibles (Fig. 2) relatively long, pointed, lateral margin with well developed spine, without dorsal sub-apical tooth, with large latero-ventral arch. Prosthema (Fig. 2) densely and finely bristled, without notch in lateral margin. Clypeus without pair of anterior horns, anterior margin slightly emarginate, surface finely granular, setae dense, pale. Head finely granular, with long erect setae above eyes. Antennae 10-segmented, with 7-segmented apical

club, antennomeres 1 and 2 with sparse long erect setae. Pronotum 1.6 times as wide as long, slightly wider than base of elytra; pronotal base completely rimmed. Surface of pronotum finely granular without longer punctures, setae sparse, short. Scutellum triangular, with acute apex. Elytra without longitudinal furrows, with shallow scutellar depressions, humeral depressions shallow, extending obliquely almost to one third of the length of elytra. Surface of elytra very finely granular with intermixed coarse granules approximately as large as eye facets; setae short, semi erect, yellowish and sparse. Epipleural ridge absent. Metaventrite with inexpressive post-mesocoxal ridge. Mesoventrite with one prominent spine in front of each mesocoxa. Post-metacoxal line present. Stridulatory arch marked with sparse striae. Protibia with 9 stout spines, meso- and metatibia with uncertain number of thin spines. Spiculum gastrale (Fig. 3) 0.90 mm long; V-shaped, arms connected apically. Aedeagus (Figs. 4–6) 0.70 mm long, parameres and basal piece short, supporting sheath, long arms not connected. Penis without internal sac and processus accessorius.

DIFFERENTIAL DIAGNOSIS: Due to the shape of the aedeagus (paramere flaps distinctly separated from the rest of the tegmen by a complete transverse line; penis without processus accessorius) the new species belongs to the *alluaudi* group sensu CHARPENTIER (1965). The shape of the aedeagus of *A. barborae* differs from that of all known species of the genus, but it is partially similar to that of *A. myanmarus* SKALICKÝ, 2000 from Myanmar (see SKALICKÝ 2000: Figs. 10–12).

ETYMOLOGY: Dedicated to my granddaughter Barbora Svojanovská.

***Augyles manfredjaechi* (MASCAGNI, 1995) (Fig. 8)**

MATERIAL EXAMINED: 1 ♂: “Hong Kong Lantau Isl. 6 kn [km] N of Mui Wo 3.vii.2010; UV trap Mojžiš lgt.” (CSU).

DISTRIBUTION: Bangladesh, China, India, Myanmar, Nepal, Pakistan, Vietnam (SKALICKÝ 2000, 2005a, MASCAGNI 2003). First record for Hong Kong.

***Heteroceris astoni* SKALICKÝ 2010 (Fig. 9)**

MATERIAL EXAMINED: 5 ♀♀: “Heteroceridae sp # 1 of 17/11/06 Wang Tong [Lantau island] to light” (3 ♀♀ CSU, 2 ♀♀ CAH).

NOTE: This species possesses 11 antennal segments (not 10, as published by SKALICKÝ 2010).

DISTRIBUTION: Hong Kong (Lantau Island) (SKALICKÝ 2010).

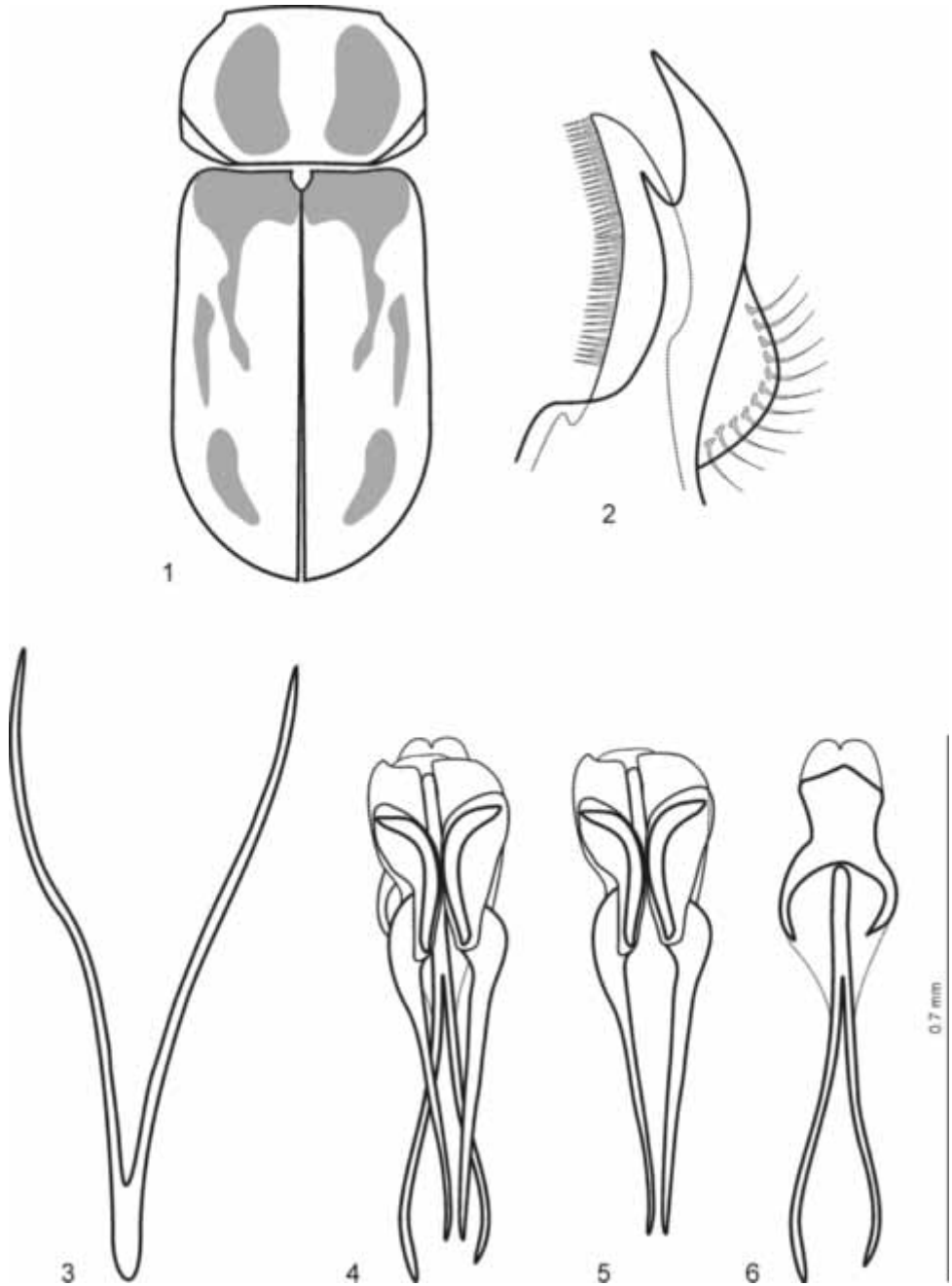
***Heteroceris fenestratus* THUNBERG, 1784 (Fig. 11)**

MATERIAL EXAMINED: 3 ♂♂, 2 ♀♀: “Hong Kong 1998 Tai Tam lake břeh [shore] 18.8. V. Macek” (1 ♂, 1 ♀ CSU, 1 ♀ CAH); 1 ♂: Wang Tang Lantau Light # 2 of VI. XII. 07 // Heteroceridae *Heteroceris* sp. (CAH); 1 ♀: Wang Tang (L) HK # 2 of 13.XI.08 (CAH); 1 ♀: Wang Tong [Lantau island] to light # II of 25/3 /07 (CSU); 1 ♀: Wang Tang (L) HK # 10 of 27.VIII.08 (CSU).

DISTRIBUTION: Palearctic Region, the Philippines, Vietnam, Canada, United States (MASCAGNI 2006). First confirmed record for Hong Kong.

***Heteroceris nepalensis* MASCAGNI, 1993 (Fig. 12)**

MATERIAL EXAMINED: 2 ♂♂, 3 ♀♀: “Hong Kong 1998 Tai Tam lake břeh [shore] 18.8. V. Macek” (1 ♂, 1 ♀ CSU, 1 ♂, 1 ♀ CAH, 1 ♀ NMW).



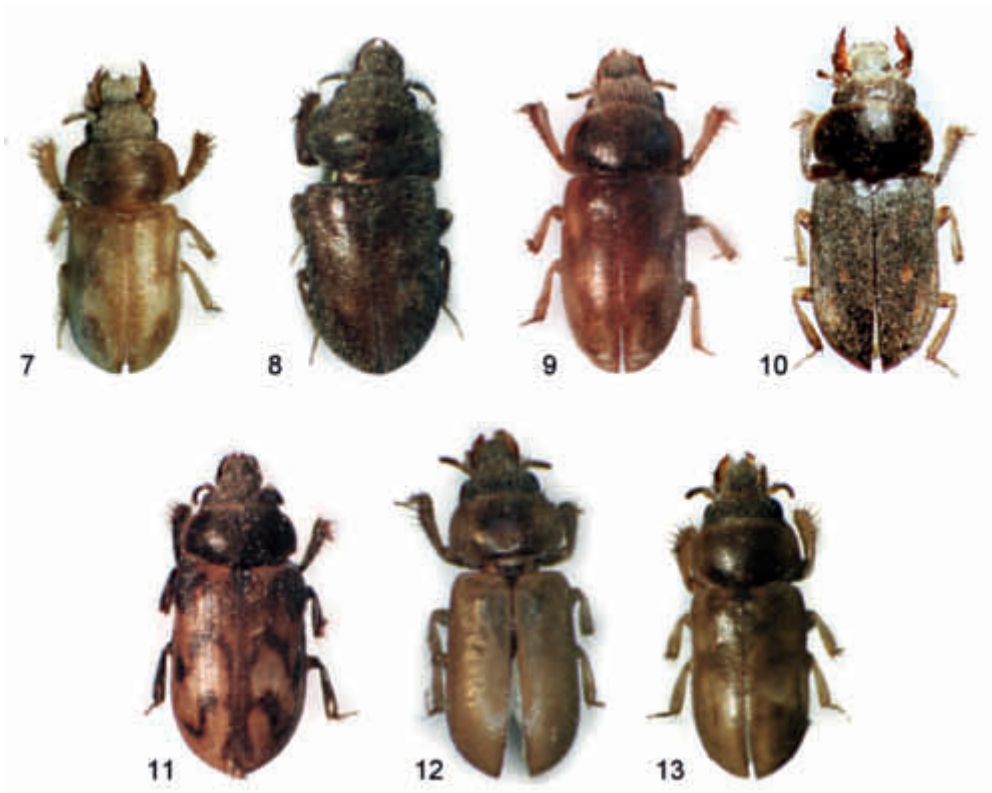
Figs. 1–6: *Augyles barborae* holotype: 1) pronotum and elytra, dorsal view; 2) left mandible and prosthema, dorsal view; 3) spiculum gastrale, dorsal view; 4) aedeagus, dorsal view; 5) penis, dorsal view; 6) tegmen and parameres, dorsal view. Figs. 1–2 not to scale.

DISTRIBUTION: China, Hong Kong, India, Indonesia (Sumatra), Laos, Myanmar, Nepal, Pakistan, Thailand, Turkmenia, Vietnam (SKALICKÝ 2000, 2003, MASCAGNI 1995, 2003, 2006).

***Heterocerus virgatus* MAMITZA, 1933 (Fig. 13)**

MATERIAL EXAMINED: 3 ♂♂, 4 ♀♀: "Hong Kong Lantau Isl. 6 kn [km] N of Mui Wo 3.vii.2010; UV trap Mojžiš lgt." (1 ♂, 2 ♀♀ CSU, 1 ♂, 1 ♀ CAH, 1 ♂, 1 ♀ NMW).

DISTRIBUTION: Bangladesh, Cambodia, China, Hong Kong, India, Java, Laos, Myanmar, Nepal, Pakistan (SKALICKÝ 2005a, 2005b, 2010, MASCAGNI & SFORZI 1999).



Figs. 7–13: Photographs of the seven species of Heteroceridae known from Hong Kong: 7) *Augyles barborae* (holotype), 8) *A. manfredjaechi*, 9) *Heterocerus astoni*, 10) *H. maindroni*, 11) *H. fenestratus*, 12) *H. nepalensis*, 13) *H. virgatus* (♀).

Key to the Heteroceridae from Hong Kong

- | | | |
|---|---|--------------------|
| 1 | Post-metacoxal line absent (<i>Heterocerus</i>) | 2 |
| – | Post-metacoxal line present (<i>Augyles</i>) | 6 |
| 2 | Mesoventrite without distinct spines in front of mesocoxa | 3 |
| – | Mesoventrite with spines in front of mesocoxa | 4 |
| 3 | Clypeus with pair of anterior horns (Habitus as in Fig. 13) | <i>H. virgatus</i> |

- Clypeus without pair of anterior horns (Habitus as in Fig. 12) *H. nepalensis*
- 4 Elytra with oblong scutelar spots (Habitus as in Fig. 11) *H. fenestratus*
- Elytra without scutelar spots 5
- 5 Basal piece of aedeagus almost parallel-sided laterally (Habitus as in Fig. 10) *H. maindroni*
- Basal piece of aedeagus arched laterally (Habitus as in Fig. 9) *H. astoni*
- 6 Colour of pronotum and elytra pale brown, surface finely granular (Habitus as in Fig. 7) *A. barborae*
- Colour of pronotum and elytra dark brown to black, surface of elytra coarsely granular (Habitus as in Fig. 8) *A. manfredjaechi*

Acknowledgements

I wish to express my thanks to Jan Mojžiš (Brno, Czech Republic) for the specimens he collected on Lantau Island. I am obliged also to Paul Aston (Llanelli, Wales, England, long time resident of Hong Kong) for reading the manuscript. Dr. Josef Jelinek (National Museum, Prague, Czech Republic) is thanked for valuable comments and for reading the manuscript.

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Jahr/Year: 2012

Band/Volume: [82_2012](#)

Autor(en)/Author(s): Skalicky Stanislav

Artikel/Article: [Augyles barborae sp.n. from Lantau Island \(Hong Kong\), and new faunistic records of Heteroceridae from Hong Kong \(Coleoptera: Heteroceridae\). 311-315](#)