

Descriptions of three new species, and updated checklists of the Heteroceridae of China and neighbouring countries (Coleoptera: Heteroceridae)

A. MASCAGNI

Abstract

The Heteroceridae of China and 14 neighbouring countries (Korea, Japan, Russian Far East, Mongolia, Kazakhstan, Kyrgyzstan, Tajikistan, Pakistan, Nepal, India (Uttar Pradesh, and Assam), Myanmar, Thailand, Laos, and Vietnam) are listed. Two genera, *Augyles* SCHIÖDTE, 1866 (subgen. *Littorimus* GOZIS, 1885) and *Heterocerus* FABRICIUS, 1792 and 14 species are reported from China. Three new species, *Augyles robustus* and *Heterocerus sichuanensis* from China and *Augyles hartmanni* from Nepal, are described. Recorded for the first time are: *Micilus minutissimus* SAHLBERG, 1900 from Vietnam, *Augyles intermedius* (KIESENWETTER, 1843) from Kazakhstan, *Augyles interspidulus* (CHARPENTIER, 1979) from China, *Augyles flavidus* (ROSSI, 1794) from Kyrgyzstan and Pakistan, *Augyles manfredjaechi* (MASCAGNI, 1995) from Vietnam, *Augyles oblitteratus* (KIESENWETTER, 1843) from Kazakhstan, *Augyles pruinosis* (KIESENWETTER, 1851) from Kazakhstan, *Augyles pucholti* SKALICKÝ, 2001 from Nepal, *Augyles rejseki* SKALICKÝ, 1999 from Laos, *Heterocerus flexuosus* STEPHENS, 1828 from Tajikistan, *Heterocerus fossor* KIESENWETTER, 1843 from Kazakhstan, *Heterocerus fusculus fusculus* KIESENWETTER, 1843 from Kazakhstan, *Heterocerus lorenzvae* MASCAGNI, 1993 from Pakistan and Vietnam, *Heterocerus mus* CHARPENTIER, 1965 from Kazakhstan and Pakistan, *Heterocerus nepalensis* MASCAGNI, 1993 from Pakistan, *Heterocerus obsoletus* CURTIS, 1828 from Kazakhstan, *Heterocerus parallelus* GEBLER, 1830 from Kazakhstan, *Heterocerus philippensis* ssp. *thieleni* MASCAGNI, 1993 from Nepal and Vietnam.

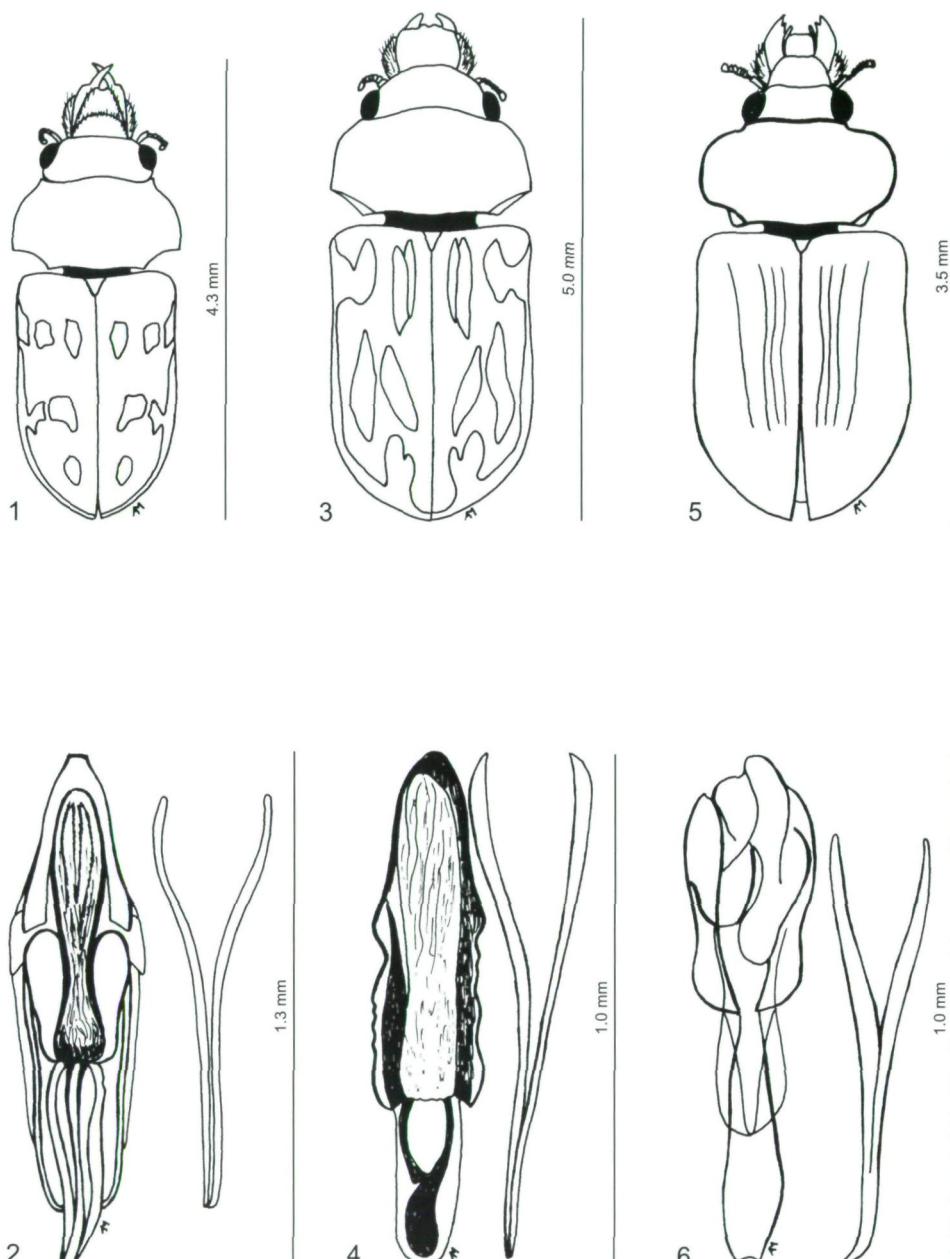
Key words: Coleoptera, Heteroceridae, *Augyles*, *Heterocerus*, *Micilus*, new species, China, Korea, Japan, Russian Far East, Mongolia, Kazakhstan, Kyrgyzstan, Tajikistan, Pakistan, Nepal, India, Myanmar, Thailand, Laos, Vietnam, checklists.

Introduction

The study of entomological material from various collections (see below) has revealed three new species and allows to update the checklists of the Heteroceridae of China and neighbouring countries published by MASCAGNI (1995b). The following checklists are based on literature records and on material deposited in the collections mentioned below.

Acronyms:

CASS	California Academy of Sciences, San Francisco, U.S.A.
CMS	Coll. A. Mascagni, Scandicci (Firenze), Italy
CPE	Coll. A. Pütz, Eisenhüttenstadt, Germany
CSU	Coll. S. Skalicky, Ústí nad Orlicí, Czech Republic
MNHG	Museum für Naturkunde der Humboldt-Universität zu Berlin, Germany
NME	Naturkundemuseum Erfurt, Germany
NMW	Naturhistorisches Museum, Wien, Austria
SMNS	Staatliches Museum für Naturkunde in Stuttgart, Germany
SMTD	Staatliches Museum für Tierkunde, Dresden, Germany



Figs. 1 – 6: 1-2) *Augyles robustus* sp.n., holotype, 1) habitus, 2) aedeagus and 9th abdominal sternite; 3-4) *Heterocerus sichuanensis* sp.n., holotype, 3) habitus, 4) aedeagus and 9th abdominal sternite; 5-6) *Augyles hartmanni* sp.n., holotype, 5) habitus, 6) aedeagus and 9th abdominal sternite.

Updated checklists of the Heteroceridae of China and neighbouring countries

I. C h i n a:

Augyles (Littorimus) dilutissimus (REITTER, 1887)

MASCAGNI 1995b.

Augyles (Littorimus) holdhausi (MAMITZA, 1907)

MASCAGNI 1991a, 1995b.

Augyles (Littorimus) interspidulus (CHARPENTIER, 1979)

Shaanxi 108°55'E / 34°24'N, Wei He bank, near Bridge on Autoroute to Xian Airport, 15 km N Xian, 400 m, 22.VIII.1995, leg. A. Pütz, 3 exs. (CPE), 1 ex. (CMS). First record for China.

Augyles (Littorimus) japonicus (KÔNO, 1931)

LI 1992; MASCAGNI 1995b.

Augyles (Littorimus) manfredjaechi (MASCAGNI, 1995)

MASCAGNI 1995b.

Augyles (Littorimus) robustus sp.n.

Holotype (♂): "3 km NE Maoyang, Wuzhi Shan Riv., 100 m, Prov. Hainan, 19.I.1996, leg. Ji & Wang" in CASS.
Allotype (♀): from the same locality (NMW). **Paratypes**: 3 ♂♂ and 4 ♀♀ from the same locality (NMW, CMS).

3.92 – 4.50 mm long. Probably related to *A. anulatus* (MASCAGNI, 1991), *A. laosensis* SKALICKÝ, 2000 and *A. vientianensis* SKALICKÝ, 2000 by the male genitalia (Fig. 2). Head black, thick pubescence whitish; great mandibles with acute apex; antennae with 11 segments, apical 7 clubbed. Pronotum black, trapezoidal, narrowing strongly anteriorly and bordered posteriorly; dense whitish pubescence with hairs longer on the sides; densely dotted. Elytra with striae and dense whitish pubescence with hairs longer; irregularly punctate and micropunctate; elytral markings as in Fig. 1. Legs orange with whitish hairs; tibiae with numerous spines. Abdomen brown with orange border; stridulatory arch marked; post-metacoxal line present. Aedeagus 1.30 mm long, as in Fig. 2.

Distribution: known only from the type locality.

Etymology: named in reference to robust appearance.

Augyles (Littorimus) sinensis (GROUVELLE, 1896)

MASCAGNI 1995b.

Augyles (Littorimus) taiwanensis (MASCAGNI, 1995)

Heterocerus fenestratus (THUNBERG, 1784)

LI 1992; MASCAGNI 1995b.

Heterocerus infuscatus GROUVELLE, 1911

WU 1933, 1937; MASCAGNI 1995b.

Heterocerus nepalensis MASCAGNI, 1993

MASCAGNI 1995b.

Heterocerus sauteri GROUVELLE, 1911

KÔNO 1931.

Heterocerus sichuanensis sp.n.

Holotype (♂): "Kangding Xian, Prov. Sichuan, Exp. Stötzner, IV.1923" in SMTD.

5.0 mm long. Not closely related to any species of the genus *Heterocerus*. Head black, thick pubescence whitish. Mandibles fairly developed with no acute apex; antennae with 11 segments, apical 7 clubbed. Pronotum black, trapezoidal, fairly strong anteriorly and bordered posteriorly; dense whitish pubescence with longer hairs; marked densely and dotted. Elytra with dense whitish pubescence with longer hairs; marked, thickly punctate and irregularly micropunctate; elytral markings as in Fig. 3. Legs orange with whitish hairs; tibiae with numerous spines. Abdomen brown least dark border; stridulatory arch marked; post-metacoxal line absent. Aedeagus 1.0 mm long, as in Fig. 4.

Distribution: known only from the type locality.

Etymology: the name of the new species refers to its type locality.

***Heterocerus stultus* GROUVELLE, 1915**

MASCAGNI 1995b.

II. K o r e a:

***Augyles (Littorimus) koreanus* (SKALICKÝ, 1994)**

MASCAGNI 1995b.

***Augyles (Littorimus) mascagnii* (SKALICKÝ, 1994)**

MASCAGNI 1995b.

***Heterocerus fenestratus* (THUNBERG, 1784)**

CHARPENTIER 1979; MASCAGNI 1995b.

***Heterocerus marginatus* (FABRICIUS, 1787)**

STRien 1980; MASCAGNI 1995b.

III. J a p a n:

***Augyles (Littorimus) japonicus* (KÔNO, 1931)**

NAKANE et al. 1984; SATÔ 1985; LI 1992; MASCAGNI 1995b.

***Augyles (Littorimus) tokejii* (NOMURA, 1958)**

NAKANE et al. 1984; MASCAGNI 1995b.

***Heterocerus fenestratus* (THUNBERG, 1784)**

CHARPENTIER 1979; MASCAGNI 1995b.

IV. R u s s i a n F a r E a s t:

***Augyles (Littorimus) holdhausi* (MAMITZA, 1907)**

MASCAGNI 1991a, 1995b.

***Augyles (Littorimus) intermedius* (KIESENWETTER, 1843)**

MOTSCHULSKY 1854; CHARPENTIER 1979; MASCAGNI 1995b.

***Heterocerus fenestratus* (THUNBERG, 1784)**

CHARPENTIER 1979; MASCAGNI 1995b.

***Heterocerus kamtschaticus* EGOROV, 1989**

MASCAGNI 1995b.

***Heterocerus obsoletus* CURTIS, 1828**

CHARPENTIER 1979; MASCAGNI 1995b.

***Heterocerus parallelus* GEBLER, 1830**

CHARPENTIER 1979; MASCAGNI 1995b.

V. Mongolia:

Augyles (Littorimus) intermedius (KIESENWETTER, 1843)

CHARPENTIER 1979; MASCAGNI 1995b.

Augyles (Littorimus) interspidulus (CHARPENTIER, 1979)

MASCAGNI 1995b.

Augyles (Littorimus) marmota (KIESENWETTER, 1850)

CHARPENTIER 1979; MASCAGNI 1995b.

Heterocerus fenestratus (THUNBERG, 1784)

CHARPENTIER 1979; MASCAGNI 1995b.

Heterocerus flexuosus STEPHENS, 1828

CHARPENTIER 1979; MASCAGNI 1995b.

Heterocerus kaszabi CHARPENTIER, 1979

MASCAGNI 1995b.

Heterocerus obsoletus CURTIS, 1828

CHARPENTIER 1979; MASCAGNI 1995b.

Heterocerus parallelus GEBLER, 1830

CHARPENTIER 1979; MASCAGNI 1995b.

VI. Kazakhstan:

Augyles (Littorimus) flavidus (ROSSI, 1794)

Syrdarja, Kisilkum, 1937, leg. Fischer & Willberg, 1 ex. (MNHB).

Augyles (Littorimus) hispidulus (KIESENWETTER, 1843)

Syrdarja, Kisilkum, 1937, leg. Fischer & Willberg, 5 exs. (MNHB, CMS).

Augyles (Littorimus) intermedius (KIESENWETTER, 1843)

Süd Altai, 49°33'N / 83°50'E, Voronje Sedlo, 600 m, 24.V.1993, leg. V. Lukhtanov, 2 exs. (MNHB, CMS). First record for Kazakhstan.

Augyles (Littorimus) oblitteratus (KIESENWETTER, 1843)

Dzhungarskij Ala-Tau, Koksu River, Rudnicnyj, 18/23.V.1991, leg. Bencs, 1 ex. (CSU). First record for Kazakhstan.

Augyles (Littorimus) pruinosus (KIESENWETTER, 1851)

Charyn, W Chundza, 800 m, 10/13.VI.1993, leg. W. Schawaller, 9 exs. (SMNS, CMS). First record for Kazakhstan.

Augyles (Littorimus) turanicus (REITTER, 1887)

Syrdarja, Kisilkum, 1945, leg. Fischer & Willberg, 2 exs. (MNHB, CMS).

Heterocerus fenestratus (THUNBERG, 1784)

Kisilkum, 1937, leg. Fischer & Willberg, 1 ex. (MNHB).

Heterocerus flexuosus STEPHENS, 1828

Syrdarja, Kisilkum, 1945, leg. Fischer & Willberg, 2 exs. (MNHB, CMS).

Heterocerus fossor KIESENWETTER, 1843

Taldy-Kurgan, Lake Alakol, Utscharal, 400 m, 5.VIII.1994, leg. V. Lukhtanov, 188 exs. (NME, CMS). First record for Kazakhstan.

Heterocerus fusculus ssp. *fusculus* KIESENWETTER, 1843

Kapcagaj, 14.VIII.1991, leg. Snižek, 1 ex. (CSU). First record for Kazakhstan.

Heterocerus mus CHARPENTIER, 1965

Syrdarja, Tschimkent, Balatul, 20.V/5.VI.1995, leg. V. Lukhtanov, 1 ex. (NME). First record for Kazakhstan.

***Heterocerus obsoletus* CURTIS, 1828**

Taldy-Kurgan, 43°56'N / 79°39'E, 500 m, 4.VI.1993, leg. V. Lukhtanov, 12 exs. (NME, CMS). First record for Kazakhstan.

***Heterocerus parallelus* GEBLER, 1830**

Ciili, 4.VI.1991, leg. Weidlich, 4 exs. (CPE, CMS). First record for Kazakhstan.

VII. Kyrgyzstan:***Augyles (Littorimus) flavidus* (ROSSI, 1794)**

Alai Mts., 10 km N Daraut Kurgan, Tengisbal Pass, 3000-3800 m, 11/25.V.1995, leg. V. Lukhtanov, 4 exs. (NME), 2 exs. (CMS). First record for Kyrgyzstan.

VIII. Tajikistan:***Augyles (Littorimus) flavidus* (ROSSI, 1794)**

MASCAGNI 1995b.

***Heterocerus fenestratus* (THUNBERG, 1784)**

MASCAGNI 1995b.

***Heterocerus flexuosus* STEPHENS, 1828**

Amu Darja River, 35-40 km W Shartuz, 300 m, 28.VI.1994, leg. V. Lukhtanov, 1 ex. (NME). First record for Tajikistan.

***Heterocerus mus* CHARPENTIER, 1965**

MASCAGNI 1995b.

***Heterocerus obsoletus* CURTIS, 1828**

MASCAGNI 1995b.

IX. Pakistan:***Augyles (Littorimus) flavidus* (ROSSI, 1794)**

Bela, Baluchistan, 13/14.III.1995, leg. Hauck & Čížek, 1 ex. (NMW). First record for Pakistan.

***Heterocerus holosericeus* ROSENHAUER, 1856**

MASCAGNI & SFORZI 1999.

***Heterocerus lorenzvae* MASCAGNI, 1993**

Bela, Baluchistan, 13/14.III.1995, leg. Hauck & Čížek, 1 ex. (NMW). First record for Pakistan.

***Heterocerus mus* CHARPENTIER, 1965**

Baluchistan, 90 km SSE Quetta Kundlani, 20/23.II.1995, leg. Hauck & Čížek, 2 exs. (NMW, CMS). First record for Pakistan.

***Heterocerus nepalensis* MASCAGNI, 1993**

Baluchistan, 90 km SSE Quetta Kundlani, 20/23.II.1995, leg. Hauck & Čížek, 41 exs. (NMW, CMS). First record for Pakistan.

X. Nepal:***Augyles (Littorimus) cantus* MILLER, 1995**

MASCAGNI, 1995b; MASCAGNI & SFORZI 1999.

***Augyles feai* (GROUVELLE, 1896)**

MASCAGNI 1993a, 1995b; MASCAGNI & SFORZI 1999.

***Augyles (Littorimus) grohmanni* (MASCAGNI, 1987)**

SKALICKÝ 2001b.

***Augyles (Littorimus) hartmanni* sp.n.**

Holotype (♂): "Nepal, Prov. Karnali, Distr. Jumla, 29° 18,34' N / 82° 16,23' E, Lamri Flussaue [= riverine forest], 2600 m, 21.VI.1997, leg. M. Hartmann" (NME). **Paratypes**: 7 ♂♂ from the same locality (NME, NMW, CMS); 3 exs. from "Nepal, Prov. Karnali, Distr. Jumla, Tatapani Tila River, 2200 m, 24.V.1995, leg. M. Hartmann" (NME, CMS); 3 exs. from "Nepal, Prov. Karnali, Distr. Jumla, Lamri- Jumla, Uthu Chaudhabise Khola, 2400-2600 m, 22.VI.1997, leg. A. Weigel" (NME, CMS); 2 exs. from "Nepal, Prov. Karnali, Distr. Jumla, Tatapani, 2200 m, 25.V.1995, leg. J. Weipert" (NME, CMS).

3.14 – 3.78 mm long. Probably related to *A. cantus* MILLER and *A. uncis* MILLER by the male genitalia (Fig. 6). Head black, dense whitish pubescence. Mandibles dentate with acute apex; antennae with 11 segments, apical 7 clubbed. Pronotum black, subrectangular and with rounded angles; dense whitish pubescence with longer hairs; densely dotted. Elytra black with striae and no markings; dense and short whitish pubescence; densely and irregularly punctate (Fig. 5). Legs brown with whitish hairs; tibiae with numerous spines. Abdomen black with dense whitish pubescence; stridulatory arch marked; post-metacoxal line present. Aedeagus 1.0 mm long, as in Fig. 6. Female unknown.

Distribution: known only from Nepal.

Etymology: named after M. Hartmann (NME) who collected the holotype.

***Augyles (Littorimus) ivojenisi* (MASCAGNI, 1995)**

MASCAGNI 1995b; MASCAGNI & SFORZI 1999.

***Augyles (Littorimus) kaalo* (MASCAGNI, 1995)**

MASCAGNI 1995b; MASCAGNI & SFORZI 1999; SKALICKÝ 2001b.

***Augyles (Littorimus) kolibaci* SKALICKÝ, 1998**

***Augyles (Littorimus) manfredjaechi* (MASCAGNI, 1995)**

MASCAGNI 1995b; SKALICKÝ 2001b.

***Augyles (Littorimus) martensi* (MASCAGNI, 1990)**

MASCAGNI 1995b; MASCAGNI & SFORZI 1999.

***Augyles (Littorimus) modicus* MILLER, 1995**

MASCAGNI 1995b.

***Augyles (Littorimus) pucholti* SKALICKÝ, 2001**

Prov. Bheri, Nepalgunj, Hotel Batika, at light, 28°2.59'N / 81°36.56'E, 230 m, 18.VI.1999, leg. M. Hartmann, 1 ex. (NME). First record for Nepal.

***Augyles (Littorimus) repexus* MILLER, 1995**

MASCAGNI 1995b.

***Augyles (Littorimus) saano* (MASCAGNI, 1995)**

MASCAGNI 1995b; SKALICKÝ 2001b.

***Augyles (Littorimus) schawalleri* (MASCAGNI 1990)**

MILLER 1995; MASCAGNI 1995b; MASCAGNI & SFORZI 1999; SKALICKÝ 2001b.

***Augyles (Littorimus) schmidtjaegeri* MASCAGNI, 1998**

***Augyles (Littorimus) siyo* (MASCAGNI, 1995)**

MASCAGNI 1995b.

***Augyles (Littorimus) skalei* SKALICKÝ, 2001**

***Augyles (Littorimus) terzanii* (MASCAGNI, 1995)**

MASCAGNI 1995b; MASCAGNI & SFORZI 1999.

***Augyles (Littorimus) uncis* MILLER, 1995**

MASCAGNI 1995b.

***Heterocerus fulvipes* MILLER, 1995**

MASCAGNI 1995b.

Heterocerus jelineki* ŠKALICKÝ, 1998**Heterocerus lorenzvae* MASCAGNI, 1993**

ŠKALICKÝ 2001b.

***Heterocerus nepalensis* MASCAGNI, 1993**

MASCAGNI 1995b; MASCAGNI & SFORZI 1999.

***Heterocerus philippensis* ssp. *thieleni* MASCAGNI, 1993**

Nepalgunj, Hotel Batika, at light, 28°02.59'N / 81°36.56'E, 230 m, Prov. Bheri, 18.VI.1999, leg. M. Hartmann, 2 exs. (NME), 1 ex. (CMS). First record for Nepal.

XI. INDIA (Uttar Pradesh):***Augyles (Littorimus) cantus* MILLER, 1995**

MASCAGNI & SFORZI 1999.

***Augyles (Littorimus) feai* (GROUVELLE, 1896)**

MASCAGNI & SFORZI 1999.

***Augyles (Littorimus) fornicatus* (MAMITZA, 1933)**

MASCAGNI & SFORZI 1999.

***Augyles (Littorimus) gracilis* (MOTSCHULSKY, 1858)**

MAMITZA 1933; MASCAGNI & SFORZI 1999.

***Augyles (Littorimus) grohmanni* (MASCAGNI, 1987)**

ŠKALICKÝ 2001a.

***Augyles (Littorimus) ivojenisi* (MASCAGNI, 1995)**

MASCAGNI & SFORZI 1999.

***Augyles (Littorimus) laticollis* (MAMITZA, 1933)**

MASCAGNI & SFORZI 1999.

***Augyles (Littorimus) manfredjaechi* (MASCAGNI, 1995)**

MASCAGNI & SFORZI 1999.

***Augyles (Littorimus) variabilis* (MAMITZA, 1933)**

MASCAGNI & SFORZI 1999.

***Heterocerus holosericeus* ROSENHAUER, 1856**

MASCAGNI & SFORZI 1999.

***Heterocerus magnus* MAMITZA, 1933**

MASCAGNI & SFORZI 1999.

***Heterocerus philippensis* ssp. *thieleni* MASCAGNI, 1993**

ŠKALICKÝ 2001a.

XII. India (Assam):***Augyles (Littorimus) feai* (GROUVELLE, 1896)**

MASCAGNI & SFORZI 1999.

***Augyles (Littorimus) ivojenisi* (MASCAGNI, 1995)**

MASCAGNI & SFORZI 1999.

***Augyles (Littorimus) schawalleri* (MASCAGNI, 1990)**

MASCAGNI & SFORZI 1999.

XIII. M y a n m a r:

***Augyles (Littorimus) atratus* (GROUVELLE, 1896)**

MASCAGNI 1995b.

***Augyles (Littorimus) feai* (GROUVELLE, 1896)**

MASCAGNI 1995b.

***Augyles (Littorimus) grohmanni* (MASCAGNI, 1987)**

MASCAGNI 1995b.

***Augyles (Littorimus) indicus* (MOTSCHULSKY, 1858)**

MASCAGNI 1991b; MASCAGNI 1995b.

***Augyles (Littorimus) manfredjaechi* (MASCAGNI, 1995)**

MASCAGNI & SFORZI 1999; SKALICKÝ 2000a.

***Augyles (Littorimus) myanmarus* SKALICKÝ, 2000**

***Augyles (Littorimus) schillhammeri* SKALICKÝ, 2000**

***Augyles (Littorimus) suturalis* (GROUVELLE, 1896)**

MASCAGNI 1995b; MASCAGNI & SFORZI 1999.

***Heterocerus birmanicus* GROUVELLE, 1896**

MASCAGNI, 1995b.

***Heterocerus fulvipes* MILLER, 1995**

SKALICKÝ 2000a.

***Heterocerus lorenzevae* MASCAGNI, 1993**

SKALICKÝ 2000a.

***Heterocerus nepalensis* MASCAGNI, 1993**

MASCAGNI & SFORZI 1999; SKALICKÝ 2000a.

XIV. T h a i l a n d:

***Augyles (Littorimus) anulatus* ssp. *anulatus* (MASCAGNI, 1991)**

SKALICKÝ 1999.

***Augyles (Littorimus) anulatus* ssp. *vendulae* SKALICKÝ, 2000**

***Augyles (Littorimus) conjungens* (GROUVELLE, 1904)**

MASCAGNI 1995b.

***Augyles (Littorimus) gabriellae* (MASCAGNI, 1993)**

***Augyles (Littorimus) luciae* (MASCAGNI, 1993)**

***Augyles (Littorimus) rejeki* SKALICKÝ, 1999**

***Augyles (Littorimus) umphangensis* SKALICKÝ, 2002**

***Heterocerus fenestratus* (THUNBERG, 1784)**

SKALICKÝ 1999.

***Heterocerus lorenzevae* MASCAGNI, 1993**

MASCAGNI 1995b.

***Heterocerus nepalensis* MASCAGNI, 1993**

MASCAGNI 1995b.

***Heterocerus philippensis* ssp. *thieleni* MASCAGNI, 1993**

MASCAGNI 1995b.

XV. Laos:***Augyles (Littorimus) csorbai* SKALICKÝ, 2000*****Augyles (Littorimus) gabriellae* (MASCAGNI, 1993)**

SKALICKÝ 2000b.

***Augyles (Littorimus) hiekei* (MASCAGNI, 1995)**

SKALICKÝ 2000b.

Augyles (Littorimus) laosensis* SKALICKÝ, 2000**Augyles (Littorimus) luciae* (MASCAGNI, 1993)**

SKALICKÝ 2000b.

Augyles (Littorimus) mekongensis* SKALICKÝ, 2000**Augyles (Littorimus) rejseki* SKALICKÝ, 1999**

Mekong River, 10 km N Luang Prabang, 240 km N Vientiane, IX.1992, leg. I. Somsy, 1 ex. (NME), 1 ex. (CMS). First record for Laos.

Augyles (Littorimus) vientianensis* SKALICKÝ, 2000**Heterocerus fenestratus* (THUNBERG, 1784)**

SKALICKÝ 2000b.

***Heterocerus lorenzevae* MASCAGNI, 1993**

SKALICKÝ 2000b.

***Heterocerus nepalensis* MASCAGNI, 1993**

SKALICKÝ 2000b.

***Heterocerus philippensis* ssp. *thieleni* MASCAGNI, 1993**

SKALICKÝ 2000b.

XVI. Vietnam:***Micilus minutissimus* SAHLBERG, 1900**

Yen Bai, 16.V.1990, leg. Horák, 1 ex. (CSU). First record for Vietnam.

***Augyles (Littorimus) anulatus* (MASCAGNI, 1991)**

MASCAGNI 1995b.

Augyles (Littorimus) hiekei* (MASCAGNI, 1995)**Augyles (Littorimus) infimus* (FAIRMAIRE, 1888)**

MASCAGNI 1995b.

***Augyles (Littorimus) manfredjaechi* (MASCAGNI, 1995)**

Nam Cat Tien Nat. Park, 1/15.V.1994, leg. Pacholátko & Dembicky, 2 exs. (NMW), 1 ex. (CMS); 14°10'N / 108°30'E, 40 km NW An Khe Buon Luoi, 620-750 m, 28.III/12.IV.1995, leg. Pacholátko & Dembicky, 1 ex. (NMW). First record for Vietnam.

***Heterocerus fenestratus* (THUNBERG, 1784)**

CHARPENTIER 1979; MASCAGNI 1995b.

***Heterocerus lorenzevae* MASCAGNI, 1993**

Nam Cat Tien Nat. Park, 1/15.V.1994, leg. Pacholátko & Dembický, 2 exs. (NMW), 1 ex. (CMS). First record for Vietnam.

***Heterocerus nepalensis* MASCAGNI, 1993**

MASCAGNI 1995b.

***Heterocerus philippensis* ssp. *thieleni* MASCAGNI, 1993**

Cue Phuong Nat. Park, 100 km S Hanoi, 2/12.V.1991, leg. E. Jendek, 16 exs. (NMW), 2 exs. (CMS); Ben En Nat. Park, 100 km SSW Hanoi, 40 km SW Than Hoa, 50 m, 5.VII.1990, leg. A. Napolov, 3 exs. (NME), 1 ex. (CMS). First record for Vietnam.

Acknowledgements

Sincere thanks are due to Dr. Manfred A. Jäch (NMW) for the loan of the rich material under his care. I am also grateful to Matthias Hartmann (NME), Olaf Jäger (SMTD), Dr. Wolfgang Schawaller (SMNS), Dr. Manfred Uhlig (MNHB), Andreas Pütz (Eisenhüttenstadt) and Mr. Stanislav Skalický for having allowed me to study their material.

References

- CHARPENTIER, R. 1965: A monograph of the family Heteroceridae (Coleoptera) of the Ethiopian Region. – South African Animal Life 11: 214-343.
- CHARPENTIER, R. 1979: Heteroceridae (Coleoptera) from Mongolia with description of *Heterocerus kaszabi* n. sp. and *H. interspidulus* n. sp. – Entomologica Scandinavica 10: 229-237.
- EGOROV, A.B. 1989: 37. Heteroceridae, pp. 451-453. – In Ler, P.A. (ed.): Opredelitel' nasekomikh Dalnego Vostoka SSSR. – Leningrad: Academy of Sciences, 572 pp.
- KÔNO, H. 1931: Die Heteroceriden aus Japan (Col.). – Insecta Matsumurana 6 (1-2): 3-4.
- LI, J. 1992: The Coleoptera Fauna of Northeast China. – Jilin: Jilin Education Publishing House, 205 pp.
- MAMITZA, R. 1933: Seven new Indian species of heterocerid Coleoptera. – The Annals and Magazine of Natural History, London, 12: 81-93.
- MASCAGNI, A. 1987: *Heterocerus grohmanni* sp. n. del Burma (Coleoptera Heteroceridae). – Bollettino della Società entomologica italiana 119 (1): 51-53.
- MASCAGNI, A. 1990: Two new species of Heteroceridae from Nepal (Coleoptera). – Bollettino della Società entomologica italiana 122 (2): 107-110.
- MASCAGNI, A. 1991a: La collezione eteroceridologica del Museo Civico di Storia Naturale di Venezia (Coleoptera, Heteroceridae). – Bollettino dell Museo civico Storia naturale di Venezia 40 (1989): 75-87.
- MASCAGNI, A. 1991b: Contributo alla conoscenza degli Heteroceridae del Burma e della Cambogia con descrizione di *Heterocerus amulatus* n. sp. (Insecta: Coleoptera: Heteroceridae). – Redia 74 (1): 15-28.
- MASCAGNI, A. 1993a: La collezione eteroceridologica del Carnegie Museum of Natural History di Pittsburgh (U.S.A.), con descrizione di quattro nuove specie (Coleoptera: Heteroceridae). – Opuscula zoologica fluminensia, Flums (SG) 103:1-12.
- MASCAGNI, A. 1993b: Quattro nuove specie ed una nuova sottospecie di Heteroceridae dell'Asia (Coleoptera). – Opuscula zoologica fluminensia, Flums (SG) 112: 1-11.
- MASCAGNI, A. 1995a: Contributo alla conoscenza degli Heteroceridae del Nepal, con descrizione di sei nuove specie (Coleoptera). – Opuscula zoologica fluminensia, Flums (SG) 135: 1-12.

- MASCAGNI, A. 1995b: Heteroceridae: Check list of the Heteroceridae of China and neighbouring countries, and description of two new species (Coleoptera), pp. 341-348. – In Jäch, M.A. & Ji, L. (eds.): Water Beetles of China, Vol. 1. – Wien: Zoologisch-Botanische Gesellschaft and Wiener Coleopterologenverein, 410 pp.
- MASCAGNI, A. 1998: Tre nuove specie di Heteroceridae dell'Asia (Coleoptera). – Opuscula zoologica fluminensia, Flums (SG) 162: 1-8.
- MASCAGNI, A. & SFORZI, A. 1999: Contribution to the knowledge of Heteroceridae from India and neighbouring countries (Coleoptera: Heteroceridae). – Koleopterologische Rundschau 69: 111-117.
- MILLER, W.V. 1995: New Heteroceridae (Coleoptera) from Nepal. – The Coleopterists Bulletin 49 (1): 35-41.
- MOTSCHELSKY, V. 1854: Sur les Hétérocères de Russie. – Etudes Entomologiques, Helsingfors 2: 14-21.
- NAKANE, T., OHBAYASHI, K., NOMURA, S. & KUROSAWA, Y. 1984: Iconographia Insectorum Japonicum colore naturali edita, Vol.II (Coleoptera). – Tokyo: Hokuryukan, 446 pp.
- NOMURA, S. 1958: Notes on the Japanese Dryopoidea (Coleoptera), with two species from Saghalien. – Tôhô-Gakuhô 8: 45-59, 2 pls.
- SATÔ, M. 1985: 9. Coleoptera. – In Kawai, T. (ed.): An illustrated book of aquatic insects of Japan. – Tokyo: Tokai University Press, pp. 227-260 (in Japanese).
- SKALICKÝ, S. 1994: *Littorimus koreanus* spec. nov. and *Littorimus mascagnii* spec. nov. from Korea (Coleoptera: Heteroceridae). – Opuscula zoologica fluminensia, Flums (SG) 127: 1-5.
- SKALICKÝ, S. 1998: *Augyles kolibaci* sp. n. from Nepal (Coleoptera: Heteroceridae). – Klapalekiana 34: 91-93.
- SKALICKÝ, S. 1999: New species of Heteroceridae from Thailand and Namibia (Coleoptera: Heteroceridae). – Koleopterologische Rundschau 69: 119-123.
- SKALICKÝ, S. 2000a: New species and new faunistic records of Heteroceridae from Myanmar (Coleoptera: Heteroceridae). – Koleopterologische Rundschau 70: 185-189.
- SKALICKÝ, S. 2000b: New *Augyles* species and subspecies from Laos and Thailand (Coleoptera: Heteroceridae). – Opuscula zoologica fluminensia, Flums (SG) 187: 1-11.
- SKALICKÝ, S. 2001a: Notes on Indian Heteroceridae (Coleoptera), with description of *Augyles pucholti* sp. n. – Klapalekiana 37: 53-57.
- SKALICKÝ, S. 2001b: *Augyles skalei* sp. n. and notes on Heteroceridae (Coleoptera) from Nepal. – Folia Heyrovskyana 9 (3-4): 211-216.
- SKALICKÝ, S. 2002: New Heteroceridae from Asia (Insecta: Coleoptera). – Mitteilungen des Internationalen Entomologischen Vereins 27 (1/2): 51-57.
- STRIEN, A.J. van 1980: De Nederlandse soorten van de Keverfamilie Heteroceridae. – Zoologische Bijdragen 27: 10-42.
- WU, C.F. [Hu, Jingfu] 1933: Aquatic Insects of China. Article XIII. Catalogue of Chinese Heteroceridae. – Peking Natural History Bulletin 7 (4): 347-349.
- WU, C.F. [Hu, Jingfu] 1937: Catalogus insectorum sinensium (Catalogue of Chinese insects). Vol. III. – Peiping (Beijing): The Fan Memorial Institute of Biology, 1312 pp.

Alessandro MASCAGNI

Museo Zoologico de "La Specola", Università di Firenze, Via Romana 17, I-50125 Firenze, Italy (pcfmas@tin.it)

ZOBODAT - www.zobodat.at

Zoologisch-Botanische Datenbank/Zoological-Botanical Database

Digitale Literatur/Digital Literature

Zeitschrift/Journal: [Koleopterologische Rundschau](#)

Jahr/Year: 2003

Band/Volume: [73_2003](#)

Autor(en)/Author(s): Mascagni Alessandro

Artikel/Article: [Descriptions of three new species, and updated checklists of the Heteroceridae of China and neighbouring countries \(Heteroceridae\). 285-296](#)