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# Contribution to the knowledge of Heteroceridae from India and neighbouring countries

## (Coleoptera: Heteroceridae)

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### Abstract

A small collection of Heteroceridae (Coleoptera) from India and neighbouring countries has been studied. Fourteen species are listed; three of them are new for India: *Augyles manfredjaechi* (MASCAGNI, 1995), *Heterocerus holosericeus* ROSENHAUER, 1856, *H. nepalensis* MASCAGNI, 1993; two are new for Bangladesh: *Augyles manfredjaechi* (MASCAGNI, 1995), *H. lorenzevae* MASCAGNI, 1993; one is new for Pakistan: *Heterocerus holosericeus* ROSENHAUER, 1856; and one is new for Sri Lanka: *Heterocerus maindroni* GROUVELLE, 1903. A checklist of the 25 species of Heteroceridae quoted from India is also given.

**Key words:** Coleoptera, Heteroceridae, India and neighbouring countries, new records, checklist.

### Introduction

The first work on Indian Heteroceridae quoted six species (MOTSCHULSKY 1858) to which GROUVELLE (1903, 1911) added three new species. Subsequently, MAMITZA (1928, 1930, 1933) described, respectively, two, one and seven new species. In the third paper some morphological drawings were included for the first time.

The present paper is a further contribution to the knowledge of the Heteroceridae of India and neighbouring countries and contains new collecting data and records from specimens collected in northwestern India by K. Werner (Peiting, Germany) and L. Bartolozzi (MZUF) in 1995, and in southern India by L. Bartolozzi and A. Sforzi in 1997; material from other museums was also studied. For each species only quotations for India and neighbouring countries are reported. An updated check list of the species known from India is included.

### Material

The study material consists of 225 specimens which are deposited in the following institutions and private collections.

CMNH Carnegie Museum of Natural History, Pittsburgh, USA

CMS Coll. A. Mascagni, Scandicci, Italy

CSU Coll. S. Skalicky, Ustí nad Orlicí, Czech Republic

MCSNG Museo Civico di Storia Naturale "G. Doria", Genova, Italy

MHNG Muséum d'Histoire naturelle, Genève, Switzerland

MHNP Muséum national d'Histoire naturelle, Paris, France

MNHB Museum für Naturkunde der Humboldt-Universität zu Berlin, Germany

MNKE Naturkunde Museum Erfurt, Germany

- MZUF Museo di Storia Naturale dell'Università degli Studi di Firenze, Sezione di Zoologia "La Specola", Italy  
 NMW Naturhistorisches Museum Wien, Austria  
 SMNS Staatliches Museum für Naturkunde, Stuttgart, Germany  
 SMTD Staatliches Museum für Tierkunde Dresden, Germany

### *Augyles cantus* MILLER, 1995

*Augyles cantus* MILLER 1995: 40.

*Litorimus cantus*; MASCAGNI 1995a: 12; 1995b: 346.

MATERIAL EXAMINED: India: 1 ex., Uttar Pradesh, Haridwar, Chila, 330 m, 9.-14.VIII.1994, leg. M. Snížek (CSU); Nepal: 7 exs., Gorkha, 26.-31.V.1992, leg. I. Jeniš (NMW, CMS).

DISTRIBUTION: the species is known from Pakistan, India, Nepal.

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

*Heterocerus (Litorimus) roseni* MAMITZA 1935: 29.

*Heterocerus feai*; MASCAGNI 1991: 19.

*Litorimus feai*; MASCAGNI 1993a: 2; 1995a: 11; 1995b: 345-346.

MATERIAL: India: 2 exs., Uttar Pradesh, Dehra Dun, Phandowala, Suswa River, 1.IV.1928, leg. H.G. Champion, coll. Mamitza (NMW); 1 ex., Assam, Kamrup distr., Guwahati, 350 m, at light, 24.VI.1995, leg. L. Bartolozzi & K. Werner (CMS); 7 exs., Rajasthan, Jaipur, XII.1927, leg. S.V. Konietzko (MNHB, CMS); Nepal: 1 ex., Bagmati, Patan, VII.1971, leg. R. Davidson (CMNH); 1 ex., Bagmati, Kathmandu, VII.1971, leg. R. Davidson (CMS); 1 ex., Narayani, Birganj, Parwanipur Farm, IX.1971, leg. R. Davidson (CMNH); 6 exs., Sauraha, 20.-25.V.1992, leg. I. Jeniš (NMW, CMS).

DISTRIBUTION: the species was known from Nepal, Burma, and Sri Lanka. For India it was known only from Assam; these are the first records for Uttar Pradesh and Rajasthan.

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

*Litorimus ivojenisi* MASCAGNI 1995b: 346.

MATERIAL: India: 2 exs., Uttar Pradesh, Haridwar, Chila, 330 m, 9.-14.VIII. 1994, leg. M. Snížek (CSU); 1 ex., Assam, Kamrup distr., Guwahati, 350 m, at light, 24.VI.1995 leg. L. Bartolozzi & K. Werner (CMS); Nepal: 1 ex., Bheri, Nepalganj distr., 40 km N Nepalganj, Babai-River, 500 m, 3.VI.1995, leg. M. Hartmann (MNKE).

DISTRIBUTION: the species was known from Nepal, Burma and Sri Lanka. For India it was known only from Assam, this is the first record for Uttar Pradesh.

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

*Litorimus kaalo* MASCAGNI 1995b: 346.

MATERIAL: Nepal: 5 exs., Bheri, Nepalganj distr., 40 km N Nepalganj, Babai-River, 500 m, 3.VI.1995, leg. M. Hartmann (MNKE, CMS).

DISTRIBUTION: the species is known only from Nepal.

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

*Litorimus manfredjaechi* MASCAGNI 1995b: 343, 346.

MATERIAL: India: 1 ex., Uttar Pradesh, Haridwar, Chila, 330 m, 9.-14.VIII. 1994, leg. M. Snížek (CSU); Bangladesh: 1 ex., Chittagong, Pauchlaib, at light, 5.IV.1970, leg. F. Dvorák (CSU); Burma: 1 ex., Mandalay, at light, 30.I.1972, leg. J. Dostál (CSU); 2 exs., Rangoon, at light, 30.I.1972, leg. J. Dostál (CSU, CMS).

**DISTRIBUTION:** the species was known from Nepal, Burma, China; these are the first records for Bangladesh and India.

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

*Heterocerus (Littorimus) martensi* MASCAGNI 1990: 107.

*Littorimus martensi*; MASCAGNI 1995a: 11; 1995b: 346.

*Augyles martensi*; MILLER 1995: 35.

**MATERIAL:** Nepal: 2 exs., Himalaya, Annapurna Mts., 1700 m, N Pokhara, 14.V.1993, leg. M. Schmidt (MNKE, CMS); 1 ex., Himalaya, Annapurna Mts., Madi Khola Valley, Lamkhet, 900 m, 14.V.1996, leg. M. Schmidt & O. Jäger (SMTD); 9 exs., Himalaya, Annapurna Mts., Madi Khola Valley, river below Chipli, 1050 m, 14.V.1996, leg. M. Schmidt & O. Jäger (SMTD, CMS).

**DISTRIBUTION:** the species is known only from Nepal.

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

*Heterocerus (Littorimus) schawalleri* MASCAGNI 1990: 107.

*Littorimus schawalleri*; MASCAGNI 1995a: 7; MASCAGNI 1995b: 346.

*Augyles schawalleri*; MILLER 1995: 35.

**MATERIAL:** India: 3 exs., Assam, Barpeta distr., Barpeta Road, at light, 23.-24.VI.1995, leg. L. Bartolozzi & K. Werner (MZUF, CMS); 6 exs., Assam, Gauhati, 200 m, 24.X.1978, leg. C. Besuchet & I. Löbl (MHNG, CMS); Nepal: 2 exs., Ilam distr., Nodia Khola Valley, N. Siwalik Mts., Shorea Mixed Forest, 320 m, Berlese sample, 6.IV.1988, leg. J. Martens & W. Schawaller (SMNS, CMS); 1 ex., Biratnagar, 2.XI.1990, leg. J. Scifert (CSU); 22 exs., Sauraha, 20.-25.V.1992, leg. I. Jeniš (NMW, CMS).

**DISTRIBUTION:** the species is known from India (Assam) and Nepal.

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

*Heterocerus suturalis* GROUVELLE 1896: 52; MASCAGNI 1988: 4; 1991: 22.

*Littorimus suturalis*; MASCAGNI 1995b: 345.

**MATERIAL:** Burma: 4 exs., Rangoon, XII.1971/30.I.1972, leg. J. Dostál (CSU).

**DISTRIBUTION:** the species is known only from Burma.

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

*Littorimus terzanii* MASCAGNI 1995a: 5; 1995b: 347.

**MATERIAL:** Nepal: 1 ex., Palpa, Ramdighat, Kali Gandaki, 480 m, 5.I.1994, leg. S. Sharma (NMW); 1 ex., Bheri, Surkhet distr. 20 km S Surkhet, Bheri-River, 600 m, 3.VI.1995, leg. M. Hartmann (CMS); 29 exs., Himalaya, Annapurna Mts., Madi Khola Valley, Bhaise, 900 m, 15.V.1996, leg. M. Schmidt & O. Jäger (SMTD, CMS).

**DISTRIBUTION:** the species is known only from Nepal.

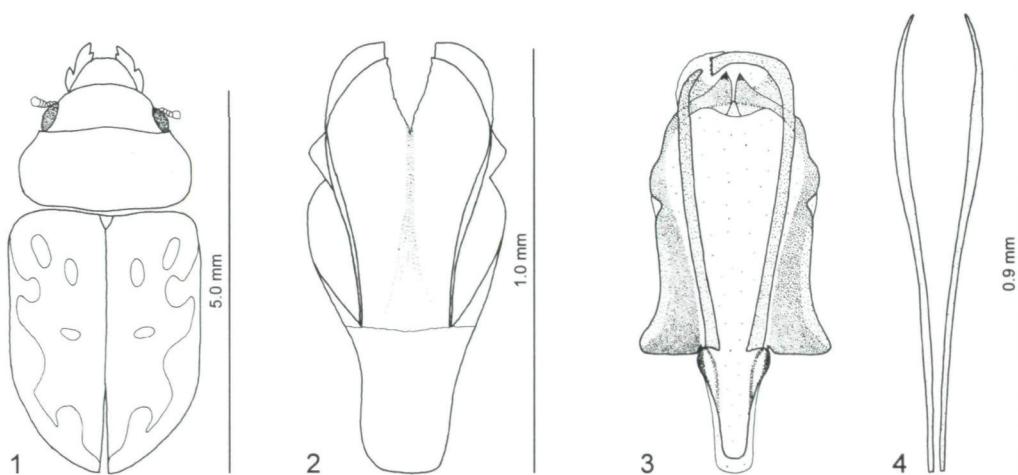
### *Heterocerus cinctus* MOTSCHULSKY, 1858

*Heterocerus cinctus* MOTSCHULSKY 1858: 25.

*Heterocerus confusus* GROUVELLE 1903: 346.

**MATERIAL:** India: 1 ex., Kerala, Malabar Coast, Mahé, VII.1901, leg. M. Maindron (MHNP).

**DISTRIBUTION:** the species is known from India and Sri Lanka.



Figs. 1 - 4: *Heterocerus maindroni*, holotype, 1) habitus; 2) aedeagus; 3) aedeagus; 4) 9th abdominal sternite.

### *Heterocerus holosericeus* ROSENHAUER, 1856

*Heterocerus holosericeus* ROSENHAUER 1856: 114; MASCAGNI & CALAMANDREI 1992: 126.

MATERIAL: India: 1 ex., Tamil Nadu, Pudukkottai, Alangudi, at light, 20.X.1997 leg. A. Sforzi & L. Bartolozzi (MZUF); 1 ex., Uttar Pradesh, Kotdwara, 3.-8.VIII.1994, leg. M. Snížek (CSU); Pakistan: 1 ex., Sind Karchat, Kirthar Nat. Park, 25.II./4.III.1995, leg. Hauck & Cizek (NMW).

DISTRIBUTION: the species is widespread in the Palearctic region (European-Mediterranean chorotype). Here is the first quotations for the Oriental region.

REMARKS: all the bibliographical quotations concerning this species regard the Palearctic region and thus were not deemed pertinent to this paper. For these quotations see: MASCAGNI & CALAMANDREI (1992) and AGUILERA, MASCAGNI & RIBERA (1998).

### *Heterocerus lorenzevae* MASCAGNI, 1993

*Heterocerus lorenzevae* MASCAGNI 1993b: 7; 1995b: 345.

MATERIAL: India: 4 exs., Rajasthan, Udaipur, 21.VIII.1987, leg. A. Riedel (SMNS, CMS); 1 ex., Meghalaya, W Garo Hills, Balphakram Nat. Park, 25°11'N, 90°51'E, 300-500 m, 22.-27.V.1996, leg. E. Jendek & O. Sausa (NMW); Bangladesh: 1 ex., Chittagong, Nasirabad, at light, 25.IX.1970, leg. F. Dvorák (CSU).

DISTRIBUTION: the species was known from India and Thailand; this is the first record for Bangladesh.

### *Heterocerus maindroni* GROUVELLE, 1903

*Heterocerus maindroni* GROUVELLE 1903: 345; MAMITZA 1930: 437.

MATERIAL: India: 70 exs., Tamil Nadu, Dindigul Anna distr., Vattalkundu, at light, 21.X.1997, leg. A. Sforzi & L. Bartolozzi (MZUF, MHNP, CMS); 1 ex., Tamil Nadu, Nilgiri Hills, Kunchappani, 1100 m, at light, 27.-28.X.1997, leg. A. Sforzi & L. Bartolozzi (MZUF); Sri Lanka: 7 exs., Colombo, at light, near sea, without date, leg. Friederichs (MNHB, CMS).

**DISTRIBUTION:** the species was known from India, this is the first record for Sri Lanka.

**REMARKS:** we examined the type specimen (MHNP). The specimen, a male in good condition, is labeled "Coté de Malabar, M. Maindron, Mahé, Juillet, 1901, coll. Grouvelle". It was studied by Dr. R. Charpentier in 1960 and in 1971 who added two labels: "lectotypus, *Heterocerus maindroni* (Grouv.) ♂, Charpentier, 1960" and "*Heterocerus dubius* F. ♂, det. Charpentier, 1971". He evidently considered *H. maindroni* Grouvelle as a synonym of *H. dubius* F. but did not publish his conclusion. As we could not study the type of *H. dubius* F., at present we prefer to separate these two species because of the brief original description makes a decision impossible.

Attached to the type specimen of *H. maindroni* is a two-layer, shiny, transparent label with the aedeagus. Unfortunately it is crushed between the two acetate layers and its shape is modified. It is most likely that the specimen was dissected by Dr. R. Charpentier in either 1960 or 1971. We deem it useful to include drawings of the habitus and modified aedeagus (Figs. 1, 2) - together with drawings of a freshly dissected aedeagus of the same species (Figs. 3, 4); the latter is deposited in the MZUF.

### *Heterocerus nepalensis* MASCAGNI, 1993

*Heterocerus nepalensis* MASCAGNI 1993a: 2; 1995a: 12; 1995b: 342, 344-346; MILLER 1995: 35, 41.

**MATERIAL:** **India:** 4 exs., Tamil Nadu, Villupuram Ramasamy Padayatchiar distr., 8 km W of Gingee, at light, 30.X.1997, leg. A. Sforzi & L. Bartolozzi (MZUF, CMS); 1 ex., Tamil Nadu, Nilgiri distr., Nilgiri Hills, Kunchappani 1100 m, at light, 27.-28.X.1997, leg. A. Sforzi & L. Bartolozzi (MZUF); 3 exs., Meghalaya, W Garo Hills, Bagmara, 100 m, 25°11.5'N-90°38.5'E, 19.-21.V.1996, leg. E. Jendek & O. Šauša (NMW); **Nepal:** 3 exs., Parwanipur Farm, Birganj, at light, IX.1970, leg. R. Davidson (CMNH, CMS); 3 exs., Janakpur, IV.1971, leg. R. Davidson (CMNH); **Burma:** 1 ex., SE Dawna, 1.-20.I.1991 (NMW).

**DISTRIBUTION:** the species was known from Nepal, Burma, China, Vietnam, Thailand, Indonesia (Sumatra); this is the first record for India.

### Updated check list of the Indian species of Heteroceridae

*Augyles arrowi* (MAMITZA, 1928) - "Bengal" (MAMITZA 1928: 108)

*A. bellus* (GROUVELLE, 1911) - Bihar: Rajmahal, Ganges (GROUVELLE 1911: 317)

*A. cantus* MILLER, 1995 - see above

*A. feai* (GROUVELLE, 1896) - see above

*A. fornicatus* (MAMITZA, 1933) - Uttar Pradesh: Sarda; Kumaon, Haldwani distr., Ranikhet distr., W. Almora, W. Bhatkot, Sarju Valley (MAMITZA 1933: 88)

*A. gracilis* (MOTSCHELSKY, 1858) - India (MOTSCHELSKY 1858: 25; ZAITZEV 1910: 58); Uttar Pradesh: Sarda (MAMITZA 1933: 90, sub *Heterocerus (Littorimus) exiguum*); Haldwani, Kumaon (MAMITZA 1933: 91, sub *Heterocerus (Littorimus) castaneus*)

*A. indicus* (MOTSCHELSKY, 1858) - India (MOTSCHELSKY 1858: 26; ZAITZEV 1910: 59); known also from Burma

*A. ivojenisi* (MASCAGNI, 1995) - see above

*A. laticollis* (MAMITZA, 1933) - Uttar Pradesh: Sarda; Kumaon, Haldwani distr., Ranikhet distr., W. Almora, W. Bhatkot, Sarju Valley (MAMITZA 1933: 87)

*A. manfredjaechi* (MASCAGNI, 1995) - see above

*A. marshalli* (MAMITZA, 1928) - Bangladesh: Dacca (MAMITZA 1928: 107)

- A. micans* (MAMITZA, 1928) - India (MAMITZA 1930: 437)
- A. schawalleri* (MASCAGNI, 1990) - see above
- A. variabilis* (MAMITZA, 1933) - Uttar Pradesh: Sarda; Kumaon, Tanakpur, Haldwani, Ranikhet, W. Bhatkot, Khaula, Almora (MAMITZA 1933: 85)
- Heterocerus cinctus* MOTSCHULSKY, 1858 - see above
- H. holosericeus* ROSENHAUER, 1856 - see above
- H. lorenzevae* MASCAGNI, 1993 - see above
- H. magnus* MAMITZA, 1933 - Uttar Pradesh: Hardwar; Haldwani distr., Kumaon; Punjab: Thobba, Murree Hills (MAMITZA 1933: 83)
- H. maindroni* GROUVELLE, 1903 - see above
- H. nepalensis* MASCAGNI, 1993 - see above
- H. nigricornis* MOTSCHULSKY, 1858 - West Bengal: Calcutta (MOTSCHULSKY 1858: 26; ZAITZEV 1910: 60)
- H. punctatissimus* MAMITZA, 1930 - India (MAMITZA 1930: 437)
- H. unicolor* MOTSCHULSKY, 1858 - India (MOTSCHULSKY 1858: 27); India (ZAITZEV 1908: 317; 1910: 56, sub *Heterocerus dubiosus*).
- H. virgatus* MAMITZA, 1933 - Bangladesh: Sunderbans (MAMITZA 1933: 81)
- Micilus minutissimus* (SAHLBERG, 1900) - India (ZAITZEV 1910: 54); known also from former USSR ("Buchara, Turkestan").

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