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Contribution to the knowledge of the histerid beetles (Coleoptera, Histeridae) of North India

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A b s t r a c t : Faunistic records of 23 species belonging to 16 genera of Histeridae from North India, primarily from Uttarakhand province, are presented. All identified species are new to the fauna of Uttarakhand. Three species are reported from India for the first time: *Eulomalus pupulus* COOMAN, 1937, *Atholus maindronii* (LEWIS, 1901) and *A. pirithous* MARSEUL, 1873. The habitus of all studied species is illustrated.

K e y w o r d s : Coleoptera, Histeridae, India, fauna, new records.

Introduction

The histerid beetles (Coleoptera) are well represented in the Indian subcontinent. Members of this family are small to medium in size, round, oval or elongated in shape, generally black and shining with hard exoskeleton. They are predacious in habit both in larval and adult form, occurring in a variety of habitats namely in soil, in dung of various animals, in termite nests and under bark. The Indian fauna of Histeridae was studied by early workers like J.Ch. FABRICIUS, G. PAYKULL, Ch. WIEDEMANN, W.F. ERICHSON, S.A. MARSEUL, C.G. THOMSON, G. LEWIS and others entomologists. Amongst the above workers MARSEUL (1853) and LEWIS (1892, 1894) studied extensively on the fauna of India and its neighbouring countries and described a large number of Indian species. Later H. BICKHARDT (1913) and A. COOMAN (1932) contributed more to the knowledge about Indian Histeridae. Recently J. THÉROND & W. SCHAWALLER (1978), S. MAZUR (1975) and Y. GOMY (1976) contributed further to our knowledge. Till now about 275 species from 57 genera are known from India in comparison to about 4500 species and 400 genera all over the world (MAZUR 2011a).

The aim of this study is to report the faunistic results of the Histeridae collected by two of coauthors undertaken during Juny 2011 and April 2012 in North India, Uttarakhand province, Uttar Pradesh [classified by LÖBL & SMETANA (2004) as belonging to the Palearctic fauna].

Material and methods

This paper is based on specimens which are deposited in the following institutions and private collections:

CHSM - private collection of S. Mazur, Warszawa, Poland

DUBC - Beetle Collection of Daugavpils University, Ilgas, Daugavpils district, Latvia

The distributional data were verified by Mazur (1997, 2004, 2011a). The habitual photographs were conducted using Canon digital camera with MP-E 65 mm Macro lens, Helicon Focus automontage software, and processed on Adobe Photoshop.

Results

Subfamily D e n d r o p h i l i n a e REITTER, 1909

Diplostix sp. (Fig. 1)

M a t e r i a l e x a m i n e d : Uttarakhand province: 1 spec.: 15 km SW New Tehri, N30°15.874' E78°21.587', h=869 m, 18-20.04.2012, A. Anichtchenko (DUBC).

Eulomalus pupulus COOMAN, 1937 (Fig. 2)

M a t e r i a l e x a m i n e d : Uttarakhand province: 1 spec.: left side of Kosi River, 5 km N Ramnagar, N29°43' E79°140', 19-23.06.2011, A. Shavrin (DUBC).

D i s t r i b u t i o n : The species is known from Vietnam, Burma (Myanmar), Nepal, Sumatra, Borneo, Taiwan, China (Yunnan, Hainan). This is the first record for India here.

Pachylomalus andrewesi (LEWIS, 1904) (Fig. 3)

M a t e r i a l e x a m i n e d : Uttarakhand province: 3 spec.: left side of Kosi River, 5 km N Ramnagar, N29°43' E79°140', 7-11.06.2011, A. Anichtchenko & A. Shavrin (DUBC).

D i s t r i b u t i o n : The species was known from South India. First record for North India and Uttarakhand province.

Platylomalus mendicus (LEWIS, 1892) (Fig. 4)

M a t e r i a l e x a m i n e d : Uttarakhand province: 4 spec.: left side of Kosi River, 5 km N Ramnagar, N29°43' E79°140', 7-11.06.2011, A. Anichtchenko & A. Shavrin (DUBC).

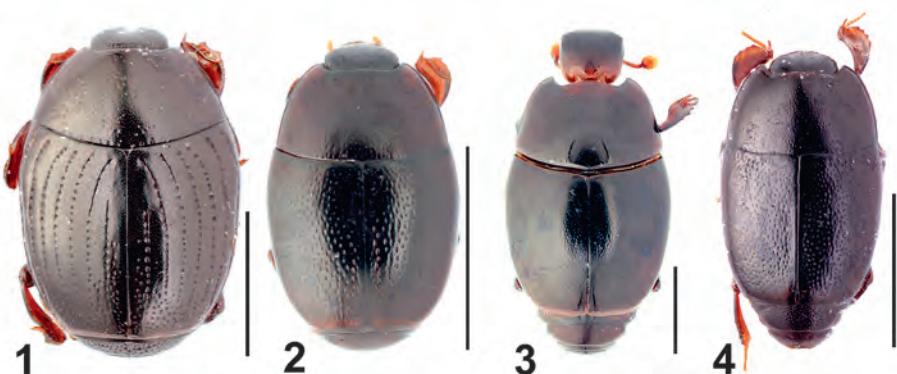
D i s t r i b u t i o n : The species is known from Far Eastern Russia (Maritime province[=Primorskiy Kray]), Japan, China, Taiwan, Vietnam, Indonesia. Recorded also from India by Cooman (1937): "de diverses localités d'Indochine, des Indes, de Java".

Subfamily H i s t e r i n a e GYLLENHAL, 1808

Atholus maindronii (LEWIS, 1901) (Fig. 5)

M a t e r i a l e x a m i n e d : Uttarakhand province: 1 spec.: 8 km W Bijnor, Ganga River, N29°22'45.06" E78°1'52.41", 08.04.2012, A. Anichtchenko (DUBC), Haryana province: 1 spec.: Karnal, 18.05.2001, M. Raković (CHSM); 1 spec.: New Dehli, 27.09.1997, P. Pucholt (CHSM).

D i s t r i b u t i o n : The species is known from Afghanistan, Pakistan and Nepal. It is the first record for India.



Figs 1-4. Habitus of Histeridae: (1) *Diplostix* sp.; (2) *Eulomalus pupulus* COOMAN; (3) *Pachylomalus andrewesi* (LEWIS); (4) *Platylomalus mendicus* (LEWIS). Scale bar: 1.0 mm.

A. pirithous MARSEUL, 1873 (Fig. 6)

reitteri BICKHARDT

M a t e r i a l e x a m i n e d : Uttarakhand province: 1 spec.: 2 km N Govind Ghat [Gobindghat], Joshimath-Badrinath pass, valley of Alaknand River, 12-13.06.2011, A. Shavrin & A. Anichtchenko (DUBC); 2 spec.: Uttarkashi E 14 km, 1500 m, N30°45'02" E78°34'26", 10-12.04.2012, R. Cibulskis (DUBC); 1 spec.: Uttarkashi distr., N30°44'99" E78°34'41", 10-12.04.2012, A. Anichtchenko (DUBC); 1 spec.: same distr., left tributary of Bhagurathi River, h-2300 m, N30°57'41.57" E78°41'54.75", 13-15.04.2012, A. Anichtchenko (DUBC); 1 spec.: Govind Ghat [Gobindghat], valley of Alaknanda River, N30°62' E79°55', 14-15.06.2011, A. Anichtchenko & A. Shavrin (DUBC).

D i s t r i b u t i o n : The species is known from Russia (Maritime province), Japan, China, Taiwan, Korea, Vietnam, Nepal, Oman. It is new records for India here.

Apobletes schaumei MARSEUL, 1861 (Fig. 7)

tener MARSEUL

M a t e r i a l e x a m i n e d : Uttarakhand province: 1 spec.: left side of Kosi River, 5 km N Ramnagar, N29°43' E79°140', 7-11.06.2011, A. Shavrin (DUBC).

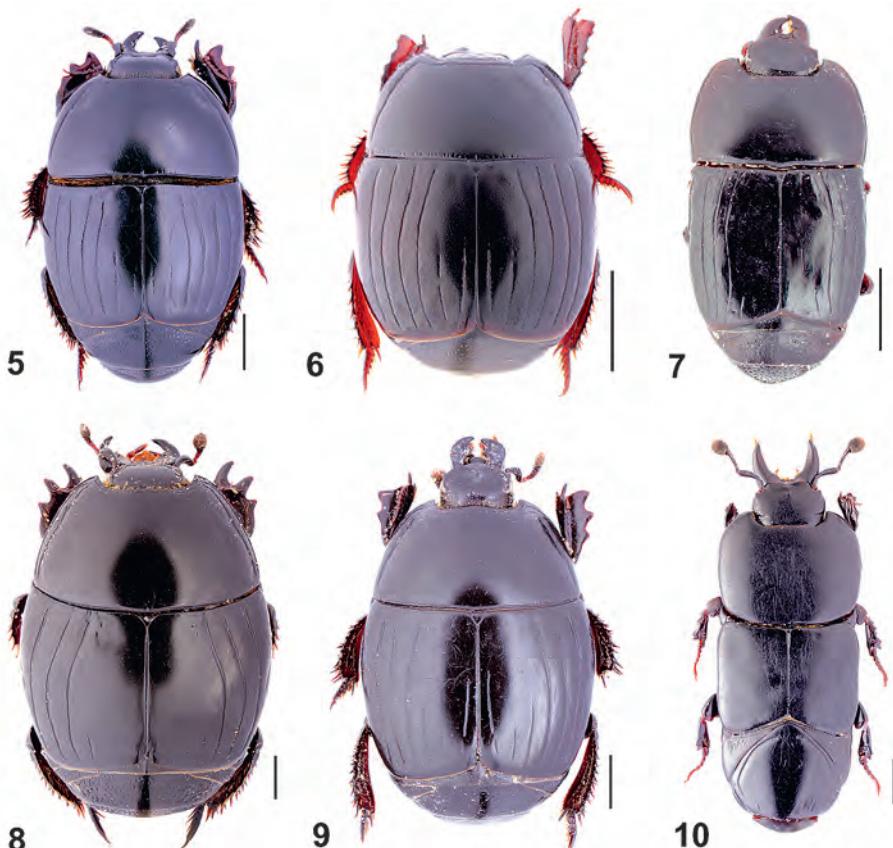
D i s t r i b u t i o n : The species is known from China (Hainan), Taiwan, Nepal, Burma, Japan and Oriental region. For India recorded from Meghalaya (Chakraborty & Biswas, 2000).

Hister furcipes MARSEUL, 1854 (Fig. 8)

bellicosus LEWIS

M a t e r i a l e x a m i n e d : Uttarakhand province: 2 spec.: 8 km NW Jaspur, lake shore, N29°21'10.54" E78°48'30.99", 22-23.04.2012, A. Anichtchenko (DUBC); 3 spec.: 8 km W Bijnor, Ganga River, N29°22'45.06" E78°1'52.41", 08.04.2012, A. Anichtchenko (DUBC).

D i s t r i b u t i o n : Described originally from "East India" [India or.] without precise locality, known also from Afghanistan, Pakistan, Java and Nepal (Mazur, 2011b).



Figs 5-10. Habitus of Histeridae: (5) *Atholus maindronii* (LEWIS); (6) *A. pirithous* MARSEUL 1873; (7) *Apobletes schaumei* MARSEUL 1861; (8) *Hister furcipes* MARSEUL 1854; (9) *H. pullatus* ERICHSON 1834; (10) *Hololepta elongata* ERICHSON 1834. Scale bar: 1.0 mm.

***H. pullatus* ERICHSON, 1834 (Fig. 9)**

frontalis LEWIS, *scissifrons* MARSEUL, *Atholus pullatus* OLEXA

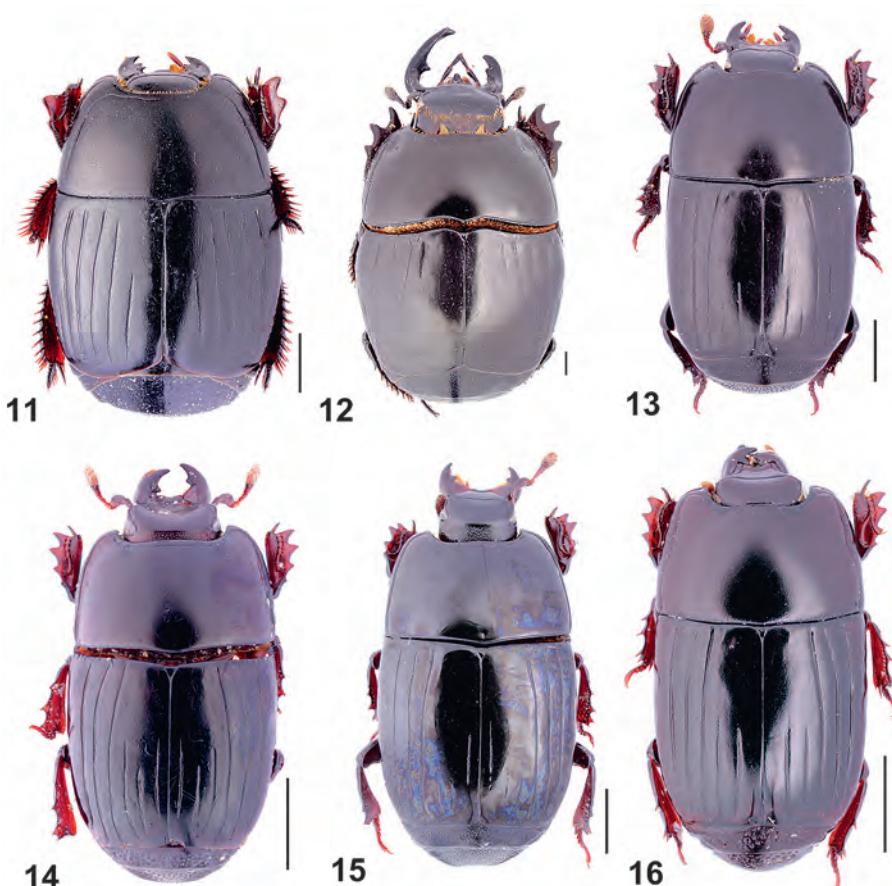
M a t e r i a l e x a m i n e d : Uttarakhand province: 2 spec.: Uttarkashi E 14 km, 1500 m, N30°45'02" E78°34'26", 10-12.04.2012, R. Cibulskis (DUBC); 8 spec.: 8 km NW Jaspur, lake shore, N29°21'10.54" E78°48'30.99", 22-23.04.2012, A. Anichtchenko (DUBC).

D i s t r i b u t i o n : The species is known from East India, Pakistan, Afghanistan, Nepal, Assam, Tenasserim, Ivory Coast.

***Hololepta elongata* ERICHSON, 1834 (Fig. 10)**

M a t e r i a l e x a m i n e d : Uttarakhand province: 2 spec.: left side of Kosi River, 5 km N Ramnagar, N29°43'2" E79°140', 7-11.06.2011, A. Anichtchenko & A. Shavrin (DUBC).

D i s t r i b u t i o n : A common Oriental species, known from India: Arunachal Pradesh.



Figs 11-16. Habitus of Histeridae: (11) *Nasaltus orientalis* (PAYKULL); (12) *Pachylister distortus* (ILLIGER); (13) *Platylistes (Platylistes) atratus* (ERICHSON); (14) *P. (P.) odiosus* (MARSEUL); (15) *P. (P.) sororius* LEWIS; (16) *P. (Popinus) confucii* MARSEUL. Scale bar: 1.0 mm.

***Nasaltus chinensis* (QUENSEL, 1806)**

incisus ERICHSON, *mandibularis* GUÉRIN-MÉNEVILLE

M a t e r i a l e x a m i n e d : Uttarakhand province: 2 spec.: 8 km NW Jaspur, lake shore, N $29^{\circ}21'10.54''$ E $78^{\circ}48'30.99''$, 22-23.04.2012, A. Anichtchenko (DUBC); 1 spec.: 8 km W Bijnor, Ganga River, N $29^{\circ}22'45.06''$ E $78^{\circ}152.41''$, 08.04.2012, A. Anichtchenko (DUBC).

D i s t r i b u t i o n : The species is known from Japan, Nepal, South Korea, China, Taiwan, East India (Arunachal Pradesh), Oriental region, introduced to Fiji, Samoa, New Hebrides, Australia, Solomon Is., Hawaii, Trinidad, French Guyana.

***N. orientalis* (PAYKULL, 1811) (Fig. 11)**

M a t e r i a l e x a m i n e d : Dehli province: 1 spec.: New Dehli, Central Ridge Reserve, 25-26.06.2011, A. Anichtchenko (DUBC).

Distribution: The species is known from Pakistan, East India, Nepal, China, Sri Lanka, introduced to Seychelles.

***Pachylister distortus* (ILLIGER, 1807) (Fig. 12)**

bengalensis WIEDEMANN, *major* HERBST

Material examined: Uttarakhand province: 2 spec.: 8 km NW Jaspur, lake shore, N29°21'10.54" E78°48'30.99", 22-23.04.2012, A. Anichtchenko (DUBC); 1 spec.: 8 km W Bijnor, Ganga River, N29°22'45.06" E78°152.41", 08.04.2012, A. Anichtchenko (DUBC).

Distribution: Known from East India (Coromandel), West Bengal, Myanmar, Afghanistan and Pakistan.

***Platylistes (Platylistes) atratus* (ERICHSÖN, 1834) (Fig. 13)**

buteanum DESBORDES

Material examined: Uttarakhand province: 10 spec.: left side of Kosi River, 5 km N Ramnagar, N29°43'2" E79°140', 7-11.06.2011, A. Anichtchenko & A. Shavrin (DUBC).

Distribution: The species is known from Japan, South China, Taiwan, India (Meghalaya, West Bengal), Nepal, Indochina.

***P. (P.) odiosus* (MARSEUL, 1861) (Fig. 14)**

dissimile MOTSCHULSKY, *marseulii* CANDEZE

Material examined: Uttarakhand province: 1 spec.: left side of Kosi River, 5 km N Ramnagar, N29°43'2" E79°140', 7-11.06.2011, A. Anichtchenko (DUBC).

Distribution: The species is known from India (Kerala, West Bengal), Sri Lanka, Indochina, Tenasserim, Borneo, Java.

***P. (P.) sororius* LEWIS, 1904 (Fig. 15)**

Material examined: 1 spec.: left side of Kosi River, 5 km N Ramnagar, N29°43'2" E79°140', 7-11.06.2011, A. Anichtchenko & A. Shavrin (DUBC).

Distribution: The species is known from India (Meghalaya, Malabar, Nilgiri Hills), Nepal, Burma, Vietnam.

***P. (Popinus) confucii* MARSEUL, 1857 (Fig. 16)**

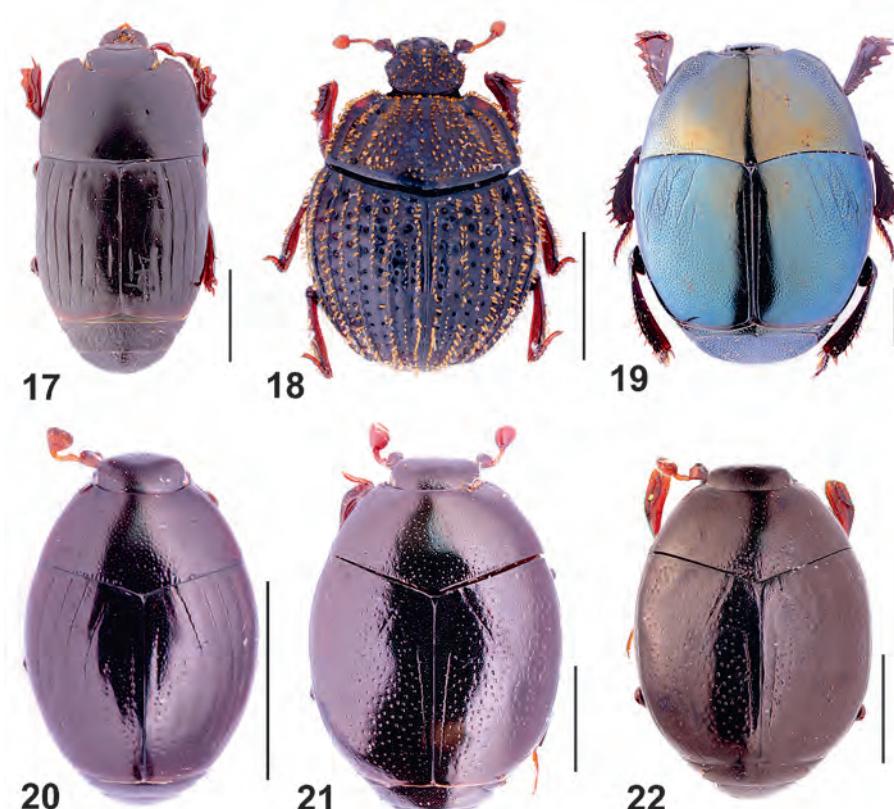
hageni MARSEUL, *quinquestriatum* MOTSCHULSKY

Material examined: Uttarakhand province: 15 spec.: 15 km SW New Tehri, N30°15.874' E78°21.587', h=869 m, 18-20.04.2012, A. Anichtchenko (DUBC); 1 spec.: left side of Kosi River, valley of Kosi River, 5 km N Ramnagar, N29°25'57" E79°08'21", 23-26.04.2012, R. Cibulskis (DUBC).

Distribution: The species is known from India (Arunachal Pradesh), China (Guandong, Hainan), Nepal, Oriental region.

***Platysoma brahmani* LEWIS, 1910 (Fig. 17)**

Material examined: Uttarakhand province: 2 spec.: left side of Kosi River, 5 km N Ramnagar, N29°43'2" E79°140', 7-11.06.2011, A. Anichtchenko (DUBC).



Figs 17-22. Habitus of Histeridae: (17) *Platysoma brahmani* LEWIS; (18) *Epiechinus hispidus* (PAYKULL); (19) *Saprinus (Saprinus) splendens* (PAYKULL); (20) *Parepierus corticicola* BICKHARDT; (21) *Tribalus (Eutribalus) colombius* MARSEUL; (22) *T. (Eu.) koenigius* MARSEUL. Scale bar: 1.0 mm.

Distribution: The species is known from India (Sikkim, Uttarakhand), Bangladesh, Bhutan and Nepal.

Subfamily O nthophilinae W.S. MACLEAY, 1819

Epiechinus hispidus (PAYKULL, 1811) (Fig. 18)

birmanus LEWIS

M a t e r i a l e x a m i n e d : Uttarakhand province: 2 spec.: left side of Kosi River, 5 km N Ramnagar, N29°43' E79°140', 7-11.06.2011, A. Anichtchenko (DUBC).

Distribution: Species described originally from "East India", known from Nepal, Burma, Sri Lanka and Indochina.

Subfamily **S a p r i n i n a e** C.E. BLANCHARD, 1845

Saprinus (Saprinus) splendens (PAYKULL, 1811) (Fig. 19)

M a t e r i a l e x a m i n e d : Uttarakhand province: 12 spec.: left side of Kosi River, 5 km N Ramnagar, N29°43' E79°140', 7-11.06.2011, A. Anichtchenko & A. Shavrin (DUBC),
speciosus ERICHSON, *viridicupreus* C.E. BLANCHARD

M a t e r i a l e x a m i n e d : Uttarakhand province: 12 spec.: left side of Kosi River, 5 km N Ramnagar, N29°43' E79°140', 7-11.06.2011, A. Anichtchenko & A. Shavrin (DUBC).

D i s t r i b u t i o n : The species is known from Capland, tropical Africa, Saudi Arabia, Afghanistan, Pakistan, India (Kashmir), South Korea, Japan, Oriental region, Australia.

Subfamily **T r i b a l i n a e** BICKHARDT, 1914

Parepierus corticicola BICKHARDT, 1913 (Fig. 20)

M a t e r i a l e x a m i n e d : Uttarakhand province: 5 spec.: 15 km SW New Tehri, N30°15.874' E78°21.587', h=869 m, 18-20.04.2012, A. Anichtchenko (DUBC).

D i s t r i b u t i o n : The species was known from India (Arunachal Pradesh, West Bengal, Assam) and Nepal.

Tribalus (Eutribalus) colombius MARSEUL, 1864 (Fig. 21)

M a t e r i a l e x a m i n e d : Uttarakhand province: 5 spec.: 15 km SW New Tehri, N30°15.874' E78°21.587', h=869 m, 18-20.04.2012, A. Anichtchenko (DUBC).

D i s t r i b u t i o n : The species is known from India (Arunachal Pradesh, Meghalaya, Assam, Andaman Is.), Sri Lanka, Burma, Taiwan, Vietnam.

T. (Eu.) koenigius MARSEUL, 1864 (Fig. 22)

M a t e r i a l e x a m i n e d : Uttarakhand province: 17 spec.: left side of Kosi River, 5 km N Ramnagar, N29°43' E79°140', 7-11.06.2011, A. Anichtchenko & A. Shavrin (DUBC).

D i s t r i b u t i o n : The species is known from India (Andaman Is.), China (Hainan), Vietnam, New Guinea, Aru Is., Tenasserim, Australia.

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Zusammenfassung

Insgesamt 23 Arten der Histeridae werden aus Nordindien, insbesondere aus Uttarakhand, nachgewiesen. Alle identifizierten Arten sind neu für die Fauna von Uttarakhand. Drei Arten werden erstmals für Indien gemeldet: *Eulomalus pupulus* COOMAN 1937, *Atholus maindronii* (LEWIS, 1901) und *A. pirithous* MARSEUL 1873. Der Habitus aller Arten wird abgebildet.

References

- BICKHARDT H. (1913): Zoological results of the Abor Expedition, 1911-1912. VIII. Coleoptera: III: Histeridae. — Records of the Indian Museum **8**: 121-125.
- CHAKRABORTY S.K. & S. BISWAS (2000): Insecta: Coleoptera: Histeridae. — In: State Fauna Series 4: Fauna of Meghalaya, Part 5. Zoological Survey of India: 93-113.
- COOMAN A. (1932): Neuf especes d'Acritus (Coléoptères Histeridae) du Tonkin. — Bulletin du Muséum d'Histoire Naturelle (2) **4**: 396-404.
- COOMAN A. (1937): Etude sur les genres *Paromalus* ER. et *Eulomalus* n.g. (Col. Histeridae). Avec description d'espèces nouvelles. — Notes d'Entomologie Chinoise **4**: 898-167.
- GOMY Y. (1976): A propos de quelques Acritus Lec. de la faune orientale (Col. Histeridae). — Bulletin de la Société Entomologique de France **81**: 261-267.
- LEWIS G. (1892): On a new species of Histeridae of Bengal. — Annales de la Société Entomologique de Belgique **36**: 142-143.
- LEWIS G. (1894): Insectes du Bengale (33^e Mémoire). Histeridae. — Annales de la Société Entomologique de Belgique **38**: 212-214.
- MARSEUL S.A. (1853): Essai monographique sur la famille des histérides. — Annales de la Société Entomologique de France (3) **1**: 131-160, 177-294.
- MAZUR S. (1975): Contribution to the knowledge of the Histeridae from South India (Coleoptera). — Revue Suisse de Zoologie **82**: 433-444.
- MAZUR S. (1997): A world catalogue of the Histeridae. — Genus, Supplement 1997, 373 pp.
- MAZUR S. (2004): Family Histeridae GYLLENHAL, 1808. — In: LÖBL I. & A. SMETANA (eds), Catalogue of Palaearctic Coleoptera. II. Hydrophiloidea – Histeroidea – Staphylinoidea. Apolo Books, Stenstrup: 68-102.
- MAZUR S. (2011a): A concise catalogue of the Histeridae (Insecta: Coleoptera). — Warsaw University of Life Sciences – SGGW Press, Warsaw. 332 pp.
- MAZUR S. (2011b): Review of the Oriental species of the genus *Hister* LINNAEUS, 1758 (Coleoptera: Histeridae). — Annales Zoologici (Warszawa) **61**: 483-512.
- THÉROND J. & W. SCHAWALLER (1978): Histeridae aus Nepal, Kashmir und Ladakh (Insecta: Coleoptera). — Senckenbergiana Biologica **59**: 235-240.

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