

Linzer biol. Beitr.	50/1	229-233	27.7.2018
---------------------	------	---------	-----------

**Two new *Atomaria* STEPHENS, 1829
(Coleoptera: Cryptophagidae) from the Oriental Region with
remarks on further *Atomaria* species**

Jens ESSER

A b s t r a c t : Two new species of *Atomaria* STEPHENS, 1829, *Atomaria natmataunga* nov.sp. and *Atomaria schuhi* nov.sp., from the Oriental Region are described.

K e y w o r d s : Cryptophagidae, *Atomaria*, Oriental Region, Myanmar, Indonesia, new species.

Introduction

The Oriental Region is not rich in species of Cryptophagidae to this day. Just a few species are described from the Oriental Region, all from areas near the Palaearctic Region. Like most Cryptophagidae, with regard to climate *Atomaria* species prefer more temperate regions. *Atomaria* is known from the Palaearctic (JOHNSON et al. 2007) and Nearctic Region, most of them live in the northern parts. Just a few species are known from the Afrotropical Region (SCOTT 1936, JOHNSON 1968) or the southernmost parts of the Palaearctic. *Atomaria lewisi* REITTER, 1877 is known from different zoogeographical regions, but it is native to the Palaearctic.

The present paper deals with two undescribed species from the Oriental Region from Myanmar and Indonesia (Java). With respect to the known biogeographical patterns of the genus, it is unsurprising to find native species of *Atomaria* in Myanmar, but the record of an *Atomaria* species in the southernmost parts of the Oriental Region respectively Southeast Asia is a significant extension of the genus' biogeographic range (such as the record of a native *Atomaria* from Ecuador (ESSER 2018).

Material and methods

The material examined is deposited in the following collections:

MNHG.....Muséum d'histoire naturelle Geneva, Switzerland

NHMW.....Naturhistorisches Museum Vienna, Austria

cES.....author's private collection, Berlin, Germany

The morphological studies were conducted using a Euromex DZ-1605 and Euromex BB.1153.PLI. Photographs were created with a ToupCam 14MP (ToupTek).

Body length was measured from the head to the apex of the elytra, length of pronotum in the middle, broadness on the broadest part.

***Atomaria natmataunga* nov.sp.**

Type material: Holotype ♂: "Mya, Chin state, barkspray, Natmataung NP, 2960 m, wnw Kanpetlet, 6.6.2010, leg. D. Zimmermann" [NHMW]. Paratypes: 6 ex. with the same data as the holotype [NHMW, cES].

E t y m o l o g y : Named after Nat Ma Taung, the local name for Mount Victoria, the highest mountain into the Chin hills range in Myanmar (Chin state).

D e s c r i p t i o n : Male, 1,4 mm, reddish-brow, elytra with a dark band, hind wings developed. Covered with pale decumbent hairs, pubescence coarse, beetle less shiny. Legs slender and pale. Antennae also pale and slender, club well separated but with segments 9, 10 and 11 relatively small. Segments 6 to 8 are globose, but segment 7 is larger than 6 and 8. Segment 1 slightly elongated and curved, longer and broader than segment 2. Segment 2 also elongated but smaller and shorter than segment 1. Segment 9 and 10 not transverse. Pronotum somewhat broader than long, broadest at the base. Base fully depressed, margins slightly rounded, nearly straight. Puncture moderately strong and dense. Elytra also with puncture moderately strong and dense, somewhat more as on pronotum. Elytra in the middle with a dark band, more or less distinct, widened to the margins.

C o m m e n t : *Atomaria natmataunga* nov.sp. (fig. 1) is well separated from all known species by the combination of general shape, antennae and coloration. The aeodeagus is typically for the genus. The tip of the medianlobus is very acute.

D i s t r i b u t i o n : Known only from the Nat Ma Taung National Park (Chin hills range in Myanmar).

***Atomaria schuhi* nov.sp.**

Type material: Holotype ♂: "Indonesia: W Java, Telaga Patengan, 1400 m, 2 km SE Rancabali (40 km SSW Bandung) lg. Schuh 6.8.1994" [cES]. Paratypes: 1 ♀ with the same data as the holotype [cES]; 1 ♀ "Indonesia, W Java, Tangkuban Prah, 10 km N Bandung, 1500-1700 m, lg. Schuh, 5.8.1994" [cES]; 1 ♀ "Java: W Java, Cibodas, 50 km E Bogor, 1400 m, 3.-6.XI.1989, Agosti. Löbl, Burckhardt #2a" [MHNG].

E t y m o l o g y : To the honour of Rudolf Schuh, who was the collector of the type material.

D e s c r i p t i o n : Male, 1,4 mm, reddish-brown, shiny, hind wings developed. Covered with pale decumbent hairs. Legs slender and pale. Antennae also pale and slender, club well separated but with segments 9, 10 and 11 relatively small, not broader than long. Pronotum broad, convex and with margin slightly angled in middle, broadest also in the middle. Base of pronotum depressed, puncture on surface strong but not dense. Elytra (basal third) with puncture as on pronotum. Elytra rounded, broadest in the basal third, much broader than pronotum.

C o m m e n t : *Atomaria schuhi* nov.sp. (fig. 2) is similar to a few Palaearctic species, especially *Atomaria horridula* REITTER, 1877 (fig. 4) and *A. incertula* JOHNSON, 1971 (fig. 5) and the cosmopolitan *Atomaria lewisi* REITTER, 1877 (fig. 3). They all are separated by their well developed and broad antennal clubs.

Distribution: Known only from West Java from mountain ranges north and south of Bandung.



Fig. 1: *Atomaria natmataunga* nov.sp., paratype, male, Myanmar.

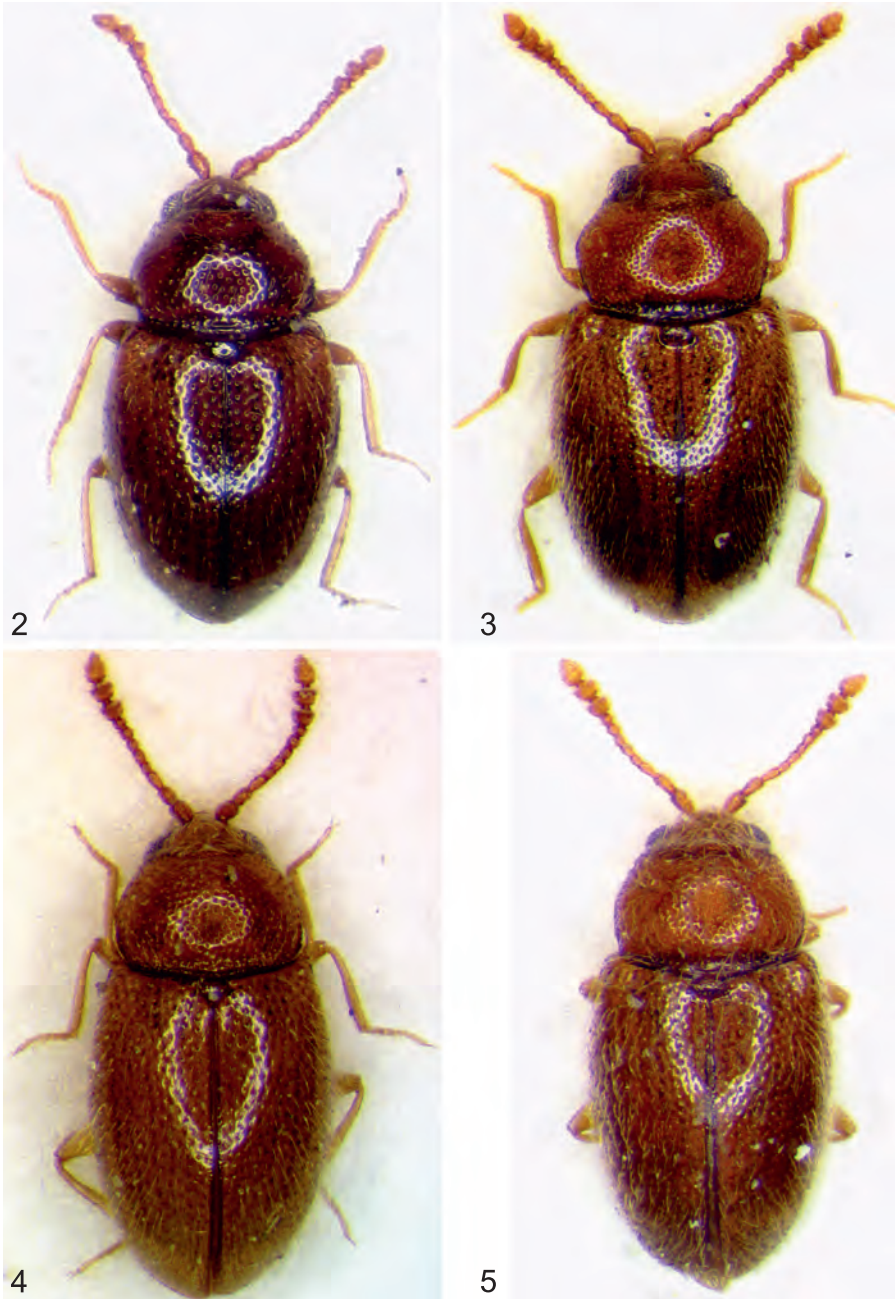


Fig. 2-3: (2) *Atomaria schuhi* nov.sp., paratype, male, West Java; (3) *Atomaria lewisi* REITTER, 1877 from Europe. **Fig. 4-5:** (4) *Atomaria horridula* REITTER, 1877, China; (5) *Atomaria incertula* JOHNSON, 1971, Nepal.

Further record of *Atomaria* STEPHENS, 1829 from the Oriental Region

Atomaria lewisi REITTER, 1877

Indonesia: Bali, Lake Buyan, 1200 m, 8.-9.XI.91, forest, litter, leg. Löbl [1 Ex. MHNG].

Acknowledgement

I wish to thank Rudolf Schuh (Vienna) for donating specimens and Dr. Jürgen Schmidl (Nuremberg) for loaning specimens and supporting my work.

Zusammenfassung

Zwei Arten der Gattung *Atomaria* STEPHENS, 1829, *Atomaria natmataunga* nov.sp. und *Atomaria schuhi* nov.sp. aus der Orientalischen Region werden beschrieben und mit ähnlichen Arten verglichen. Beide Arten stellen die ersten endemischen Arten aus diesen Regionen der Orientalis dar.

References

- ESSER J. (2018): First record of a native *Atomaria* STEPHENS, 1829 (Coleoptera: Cryptophagidae) from the Neotropical Region. — Linzer biologische Beiträge **50** (1): 225-228.
- JOHNSON C. (1968): Some interesting species of *Atomaria* STEPHENS (Col., Cryptophagidae) in the British Museum. — Entomologist **101**: 228-232.
- JOHNSON C., OTERO J.C. & R.A.B. LESCHEN (2007): Cryptophagidae. — In: LÖBL I. & A. SMETANA, Catalogue of Palearctic Coleoptera Vol. 4. — Apollo Books, Stenstrup: 513-531.
- SCOTT H. (1936): Coleoptera associated with the giant Lobelias and arborescent Senecios of eastern Africa. — Journal of the Linnean Society of London (Zoology) **39**: 235-284.

Author's address: Jens ESSER
Fagottstraße 6
D-13127 Berlin, Germany
E-mail: jens_esser@yahoo.de

ZOBODAT - www.zobodat.at

Zoologisch-Botanische Datenbank/Zoological-Botanical Database

Digitale Literatur/Digital Literature

Zeitschrift/Journal: [Linzer biologische Beiträge](#)

Jahr/Year: 2018

Band/Volume: [0050_1](#)

Autor(en)/Author(s): Esser Jens

Artikel/Article: [Two new Atomaria STEPHENS, 1829 \(Coleoptera: Cryptophagidae\) from the Oriental Region with remarks on further Atomaria species 229-233](#)