

## New and interesting Chrysomelidae (Insecta: Coleoptera) from the collection of the Naturkundemuseum Erfurt

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### Abstract

The two species *Aetheomorpha weigeli* n. sp. (China, Yunnan) and *Tibuboea namibica* n.sp. (Namibia) are described as new for science. 15 species are firstly recorded for China and 2 species for Vietnam.

### Zusammenfassung

Die beiden Arten *Aetheomorpha weigeli* n. sp. (China, Yunnan) und *Tibuboea namibica* n.sp. (Namibia) werden neu für die Wissenschaft beschrieben und abgebildet. 15 Arten aus China und 2 aus Vietnam werden als Neufunde verzeichnet.

**Key words:** Chrysomelidae, new species, China, Vietnam, Namibia

### Introduction

I had a good opportunity to study new materials from the Naturkundemuseum Erfurt, represented mostly with very interesting material, collected by Andreas Weigel in Yunnan. As a result of this study 2 species are described as new for science and a lot of species are firstly recorded for China and Vietnam.

Following abbreviations are used for depository places of new species:

NME - Naturkundemuseum Erfurt, Germany

LM - author's collection, Moscow, Russia

### Taxonomy

#### *Aetheomorpha weigeli* sp. nov.

**Holotype (male):** China, S. Yunnan, Prov. Xishuangbanna, 23 km NW Jinghong, way Na Ban to Man Fei,

6.VI.2008, 630 m, leg. A. Weigel (NME). Paratype: China, S. Yunnan, Prov. Xishuangbanna, 23 km NW Jinghong, vicinity of Na Ban (22 9'N, 100 39'E), 730 m, 6.VI.2008, leg. A. Weigel, 1 female (LM).

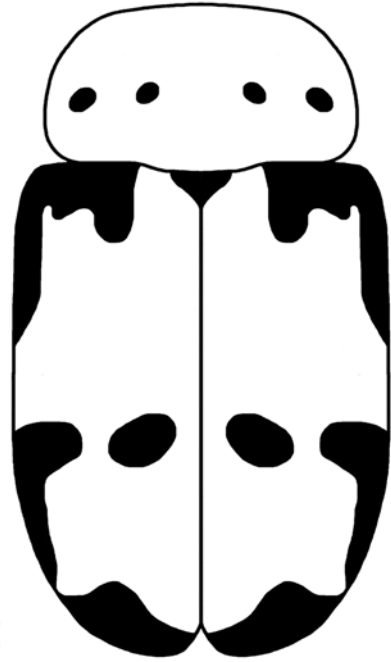
**Description.** Head red fulvous with occiput more or less black, antennae black with 3 basal segments fulvous, prothorax (fig. 1) red fulvous with 3 black spots in transverse row (central transverse spot represent two connected spots), scutellum black with dark reddish apex, elytra flavous, 4 spots (2,2), lateral margin and apex black, pygidium and underside fulvous with more or less darkened sides of breast, legs fulvous with apices of tibiae and tarsi black.

Male. Body feebly narrowed to behind. Head shining, impunctate, with very feeble impression on vertex and more distinct triangular impression on clypeus, frons twice as wide as transverse diameter of eye. Antennae distinctly serrate from the 5<sup>th</sup> segment, preceding segment triangular, much smaller than 5<sup>th</sup>, feebly elongate. Prothorax twice as wide as long, widest just behind middle, hind angles broadly rounded and not elevated, surface strongly convex, shining and impunctate. Scutellum triangular, shining, impunctate, with apex not elevated. Elytra narrower than prothorax, 1.3 times as long as wide in humeral area, distinctly narrowed posteriorly, with apices broadly rounded, surface shining, with distinct and moderately dense punctures, more feeble on apical slope. Epipleural lobe rather feeble. Pygidium partly exposed, with rounded hind margin. Segment 1 of anterior tarsi moderately widened. Aedeagus (fig. 3) widened to triangular apex, on underside with sharp central ridge in middle portion and lateral impressions. Length of body 5.7 mm.

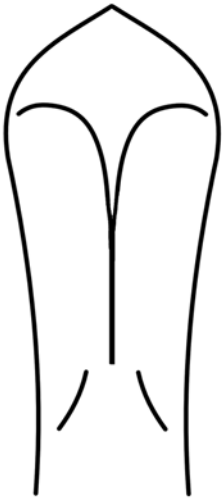
Female. Frons 2.4 times as wide as transverse diameter of eye, with 3 small grooves. Prothorax 2.2 times as wide as long, broadest in basal third. Elytra 1.15 times as long as wide, broader than prothorax, with maximal width in middle. Epipleural lobe more developed, pygidium entirely exposed. Length of body 5.5 mm.



1



2



3



4



5



Figs 1, 2: pattern of prothorax: 1 - *Aetheomorpha weigeli* sp. nov.; 2 - *Aetheomorpha jacobyi* L. Medvedev

Figs 3-5: aedeagus ventral: 3 - *Aetheomorpha weigeli* sp. nov.; 4 - *Aetheomorpha jacobyi* L. Medvedev; 5 - *Tituboea namibica* sp. nov.

**Diagnosis.** Very near to *Ae. jacobyi* L. Medvedev, 1988, differs mainly in form of aedeagus, which in *Ae. jacobyi* much narrower, without central ridge on underside, but with broad central stripe delimited with finely sculptured lateral impressions (fig. 4). Also the latter species, described from Assam, has 4 black spots on prothorax (fig. 2).

**Derivatio nominis.** Species is named after its collector.

#### *Tituboea namibica* sp. nov.

**Holotype (male):** Namibia, Outjo /Namatubis, 27.VIII.1995, leabend aus Swimmingpool, leg. B. Gabriel (NME), 1 female. Paratype: same locality, 1 female (LM).

**Description.** Fulvous, a stripe on head between eyes, metasternum and abdomen including pygidium black. Male. Body elongate, parallel-sided. Clypeus smooth and practically impunctate, its anterior margin feebly concave, frons and vertex distinctly punctuate, with dense silver pubescence, interocular space of frons very broad, 3 times as wide as transverse diameter of eye. Antennae short, scarcely reach anterior third of prothorax, serrate from the 4<sup>th</sup> segment, proportions of segments are as 13-4-4-5-6-6-6-6-5-9, segment 4 triangular, much smaller than next ones, segments 5-7 are sharply transverse, almost twice as wide as long, preapical segments about 1.3-1.5 times as wide as long. Prothorax 1.75 times as wide as long, broadest before base, with side margins feebly arcuate, hind angles broadly arcuate and not elevated, surface shining, with fine and moderately dense punctures; more strong punctures are placed along basal margin. Scutellum elongate triangular with subtruncate and elevated apex, its surface with a few fine punctures. Elytra 1.5 times as long as wide, broadest in humeral area and slightly narrowed to behind, surface with distinct dense punctures and very feeble basal convexity. Anterior legs not enlarged, segment 1 of fore tarsus neither widened nor elongate. Aedeagus with rather long finger-like process on apex, without any sculpture on underside (fig. 5). Length of body 4.0 mm.

Female. Body less parallel-sided. Antennae distinctly serrate from the 5<sup>th</sup> segment, segment 4 small and feebly triangular, segments 5-10 about 1.5 times as wide as long. Length of body 4.7 mm.

**Diagnosis.** Near *T. capensis* L. Medvedev, 1987, which has more or less similar type of aedeagus (Medvedev, 1987), but differs with unspotted upperside and sharply delimited finger-like process of aedeagus.

**Derivatio nominis.** Species is named after the country, where it was collected.

#### New records for China

##### *Lema* (s.str.) *feae* Jacoby, 1892

**Material examined.** China, S. Yunnan, Prov. Xishuangbanna, 20 km NW Jinghong (22° 7'N, 100° 40'E), 750 m, 28.VI.2008, leg. A. Weigel, 1 ex.

**Remark.** The species was known from Burma and Indochina.

##### *Smaragdina divisa* (Jacoby, 1889)

Material examined. China, S. Yunnan, Prov. Xishuangbanna, 32 km W Jinghong, vicinity Man Nuan Hui village (21° 59'N, 100° 29'E), 1150 m, 2.VI.2008, bloss trees, leg. A. Weigel, 1 female.

**Remark.** A specimen has all features of *S. divisa*, but for exact determination a male is necessary. The species was known from India, Nepal, Sri Lanka, Burma, Thailand, Vietnam.

##### *Smaragdina diversiceps* (Pic, 1941)

**Material examined.** China, S. Yunnan, Prov. Xishuangbanna, 37 km NW Jingong, Guo Men Shan (22° 17'N, 100° 38'E), 1080 m, 26.V.2008, leg. A. Weigel, 1 male (compared with type).

**Remark.** The species was known from Vietnam and Laos.

##### *Aetheomorpha bacboensis* L. Medvedev

**Material examined.** China, S. Yunnan, Prov. Xishuangbanna, 23 km NW Jinghong (22° 10'N, 100° 39'E), Na Ban Village, 680 m, 18.V.2008, leg. A. Weigel, 1 female; - China, S. Yunnan, Prov. Xishuangbanna, 37 km NW Jinghong, Guo Men Shan (22°17'N, 100°38'E), 1080m, 26.V.2008, leg. A. Weigel, 1 female.

**Remark.** The species was described from North Vietnam. These two specimens were compared with type

series of *Ae. bacboensis*, but for exact determination a male is necessary.

***Aetheomorpha coerulea* (Jacoby, 1892)**

**Material examined.** China, S. Yunnan, Prov. Xishuangbanna, 23 km NW Jinghong (22° 9'N, 100° 39'E), vicinity Na Ban, 730 m, 20.V.2008, rubber plant, secondary forest, leg. A. Weigel, 2 males.

**Remark.** Was known from Burma, Thailand and Vietnam.

***Cryptocephalus unifasciatus* Jacoby, 1889**

**Material examined.** China, S. Yunnan, Prov. Xishuangbanna, ca 30 km NW Jinghong, Bameng vicinity, Hua Zhuliangzi Mts (22° 08'N, 100° 31'E), 1700–2000 m, 30.V.2008, secondary forest, leg. A. Weigel, 1 ex.;- China, S. Yunnan, Prov. Xishuangbanna, 31 km NW Jinghong, Guo Men Shan (22 17'n, 100 38'E), 1080 m, 26.V.2008 on *Castanopsis*, leg. A. Weigel, 1 ex.

**Remark.** The species was known from Burma and Indochina

***Rhyparida thailandica* L. Medvedev, 2009**

**Material examined.** China, S. Yunnan, Prov. Xishuangbanna, 20 km NW Jinghong, Man Dian (22° 7'N, 100° 40'E), 730 m, 6.VI.2008, primary forest, leg. A. Weigel, 1 ex.

**Remark.** Only known from Laos and Thailand.

***Heminodes antennatus* (Jacoby, 1892)**

**Material examined.** China, S. Yunnan, Prov. Xishuangbanna, 23 km NW Jinghong, Na Ban (22° 9'N, 100° 39'E), 730 m, 5.VI.2008, secondary forest, leg. A. Weigel, 1 ex.

**Remark.** Known from Laos and Burma.

***Colaspoides subovata* L. Medvedev, 2003**

**Material examined.** China, S. Yunnan, Prov. Xishuangbanna, 37 km NW Jinghong, Guo Men Shan (22° 17'N, 100° 38'E), 1080 m, 26/V.2008, leg. A. Weigel, 1 ex.

**Remark.** Only known from Thailand.

***Gonioctena trilochana* (Maulik, 1926)**

**Material examined.** China, S. Yunnan, Prov. Xishuangbanna, 23 km NW Jinghong (22° 9'N, 100° 39'E), Na Ban, 730 m, 8.V.2008, leg. A. Weigel, 1 male;- China, S. Yunnan, Prov. Xishuangbanna, same locality, 680 m, 5.VI.2008, leg. A. Weigel, 1 female.

**Remark.** The species was known from Burma, Thailand and Laos.

***Paropsides nigropunctata* Jacoby, 1892**

**Material examined.** China, S. Yunnan, Prov. Xishuangbanna, 27 km NW Jinghong (22° 8'N, 100° 35'E), Beng Gang Ha Ni, 1800 m, 5.V.2008, leg. A. Weigel, 1 ex.;- China, S. Yunnan, Prov. Xishuangbanna, 27 km NW Jinghong (22 8'N, 100 35'E), vicinity Beng Gang Ha Ni, 1800–2000 m, 29.V.2008, leg. A. Weigel, 4 ex.;- China, S. Yunnan, Prov. Xishuangbanna, ca 30 km NW Jinghong, Hua Zhuliangzi Mts (22 8'N, 100 31'E), 1700–2000 m, 30.V.2008, leg. A. Weigel, 1 ex.

**Remark.** The species was known from Burma, Assam and Sikkim.

***Pyrrhalta multicostata* (Pic, 1928)**

**Material examined.** China, S. Yunnan, Prov. Xishuangbanna, 23 km NW Jinghong, Na Ban village, (22° 9'N, 100 39'E), 680 m, 5.VI.2008, leg. A. Weigel, 1 ex.

**Remark.** Was known from Burma, Thailand and Vietnam.

***Emathea subcoerulea* (Jacoby, 1891)**

**Material examined.** China, S. Yunnan, Prov. Xishuangbanna, 37 km NW Jinghong, Guo Men Shan (22 17'N, 100 38'E), 1080 m, 26.V.2008, leg. A. Weigel, 2 ex.;- China, S. Yunnan, Prov. Xishuangbanna, 27 km NW Jinghong, Beng Gang Ha Ni (22° 8'N, 100° 33'E), 11800–2000 m, 29.V.2008, leg. A. Weigel, 1 ex.

**Remark.** Known from India, Burma, Thailand, Vietnam.

***Eudolia vietnamica* L. Medvedev, 2007**

**Material examined.** China, S. Yunnan, Prov. Xishuangbanna, 37 km NW Jinghong, Guo Men Shan (22°

17°N, 100° 38'E), 1080 m, 28.VI.2008, Malaise trap, leg. A. Weigel, 1 ex.

**Remark.** The species was known from North Vietnam (Tam Dao).

#### ***Manobia cheni* Scherer, 1969**

**Material examined.** China, S. Yunnan, Prov. Xishuangbanna, 23 km NW Jinghong, Na Ban village (22° 10'N, 100° 39'E), 680 m, 20.V.2008, leg. A. Weigel, 1 ex.

**Remark.** The species was known only from North Vietnam.

#### **Species firstly found in Vietnam**

#### ***Asiparopsis pardalis* Jacoby, 1892**

**Material examined.** Vietnam, Tam Dao, 800 m, 15-23. IX.1997, leg. A. Napolov, 2 ex. (compared with type).

**Remark.** First record of Vietnam. I also have in my collection specimens from Vietnam (Tam Dao) and Laos. The species is also recorded from Burma and Assam.

#### ***Altica foveicollis* Jacoby, 1889**

**Material examined.** Vietnam, Shapa, 1250 m, 27.V-10.VI.1998, 1 ex.

**Remark.** First record of Vietnam. The species was known from Burma, Assam and Laos.

#### **Acknowledgement**

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#### **References**

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