

New Records of Tiger Beetles from Thailand with description of a new species

(Coleoptera: Cicindelidae)¹

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Abstract: *Naviauxella shooki* n. sp. is described. It is distinguished by unique elytral maculations, colour of labrum and shape of aedeagus. *Calochroa cariana* (Gestro, 1893), *Cylindera (Ifasina) viridilabris* (Chaudoir, 1852) and *Cylindera (Ifasina) spinolae koratensis* Naviaux, 1991 are recorded for the first time from the province of Chiang Mai. *Cylindera (Ifasina) kaleea kaleea* (Bates, 1863) is recorded for the first time from Thailand.

Zusammenfassung: *Naviauxella shooki* n. sp. wird beschrieben. Das Taxon ist durch seine Flügeldeckenzeichnung, die Farbe des Labrums und die Form des Aedeagus charakterisiert. *Calochroa cariana* (Gestro, 1893), *Cylindera (Ifasina) viridilabris* (Chaudoir, 1852) und *Cylindera (Ifasina) spinolae koratensis* Naviaux, 1991 werden erstmals für Chiang Mai gemeldet, *Cylindera (Ifasina) kaleea kaleea* (Bates, 1863) erstmals für Thailand.

Key words: Tiger beetles, Cicindelidae, *Naviauxella*, new species, *shooki* n. sp., Thailand, faunistics, new records

Recently I received several tiger beetle specimens collected by Gary SHOOK in Thailand. One taxon proved to be new. Others represent new province and country records (NAVIAUX & PINRATANA 2004). The names are arranged following WIESNER (1992), and, unless otherwise stated, the specimens are housed in my collection.

¹ 109th Contribution towards the knowledge of Cicindelidae.

Naviauxella shooki n. sp. (fig. 1)

Material examined: Holotype, male, and two paratypes (2 females), 18.5.2010, Thailand, Chiang Mai, Mae Sa Valley, leg. G. SHOOK; three paratypes (3 females), 25.5.2010, Thailand, Chiang Mai, 16 km W Mae Rim, leg. G. SHOOK; four paratypes (1 male, 2 females), 9.6.2010, Thailand, Chiang Mai, 16 km W Mae Rim, 700 m, leg. G. SHOOK. Holotype and 6 paratypes in coll. WIESNER (later SMNS, Staatliches Museum für Naturkunde Stuttgart), 1 paratype in coll. SHOOK and 1 paratype in coll. SCHÜLE.



Fig. 1: *Naviauxella shooki* n. sp.: Habitus holotype male

Diagnosis: A small *Naviauxella* species with dark labrum, with spotted and reduced elytral markings, comprising a small humeral dot, absent in females, and single submarginal, discal and subapical spots. Aedeagus straight, with a short apical tip.

Description: Head fully glabrous, with two orbital setae, dark bronze above, greenish on clypeus and genae; vertex distinctly depressed between the eyes, with two shallow pits anteriorally, surface generally covered with longitudinal, slightly wavy striae. Labrum (figs 2 and 3) medium to dark brown, four-setae, sometimes with additional one to two shorter hairs, distinctly wider than long in both sexes, slightly longer in the female, tridentate in front in both sexes, with a longitudinal central carina. Mandibles rufescent, testaceous at base, narrowly darkened on teeth. Labial and maxillary palpi rufescent, with the terminal segment almost fully dark in females. Antennae slender, reaching the front quarter of the elytral length in the female, and nearly half the elytral length in males; scape and second antennomere dark bronze, glabrous, a single setigerous puncture on tip of scape; third and fourth antennomeres rufescent; antennomeres 5-11 dark, nearly black, finely and evenly pubescent.

Thorax: pronotum obviously longer than wide, slightly rounded, with well-marked, greenish transverse constrictions; colour as on head, greenish-black on sides, surface fully glabrous, striations fine, slightly wavy. Sterna and episterna dark greenish-black, glabrous; female mesepisterna without coupling sulcus.



Fig. 2-3: *Naviauxella shooki* n. sp.: 2) labrum holotype male; 3) labrum paratype female

Elytra (figs 4 and 5): slightly wider than head and eyes together, parallel-sided, slightly enlarged posteriorally in female, with small, shallow, roundish metallic punctures becoming lighter towards the apex; colour dark bronze, with a dull, longitudinal, impunctate area on disc, parallel to the suture that is narrow and sometimes lacking; elytral mar-

kings consist of a small roundish humeral dot in males, which is absent in females, a slender submarginal spot, a small roundish discal spot and a small subapical spot, which sometimes extends for a short distance along the subapical margin. Female devoid of any mirror spot. Elytral apex with microserration, sutural spine small but sharp in both sexes. Epipleura testaceous.

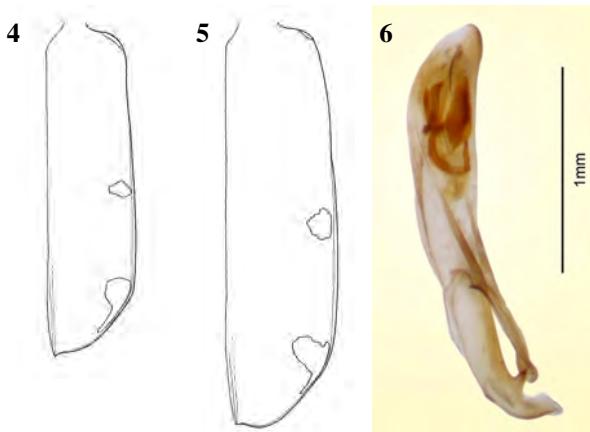


Fig. 4-6: *Naviauxella shooki* n. sp.: 4) right elytron holotype male; 5) right elytron paratype female; 6) aedeagus holotype male.

Ventral abdominal sternites pitch-black with some metallic reflections, slightly pubescent on sides of sternum and sparsely on mesepisterna; abdominal sternites glabrous. Trochanters and legs testaceous, narrowly darkened apically, with a few rows of spiniform setae.

Male aedeagus (fig. 6) 1,8 mm long, narrow, straight, elongate, with a short apical tip.

Length: 6,6–7,8 mm, mean 7,4 mm (without labrum).

Etymology: This new *Naviauxella* species is cordially dedicated to its discoverer, Gary SHOOK.

Remarks: *N. shooki* n. sp. is easily distinguished from all other *Naviauxella* species by its very dark brown labrum, its reduced elytral patterns and the short tipped apical point of the aedeagus.

New species records

Neocollyris (Neocollyris) cruentata (Schmidt-Goebel, 1846)

Distribution: Thailand (Mae Hong Son, Chiang Mai, Sukhothai, Phitsanulok, Sakhon Nakhon, Nakhon Phanom, Chaiyaphum, Ubon Ratchathani, Chanthaburi, Krabi, Trang), N India (Assam), Myanmar, Laos, Vietnam, China (Yunnan), Indonesia (Sumatra, Borneo).

Specimens examined: 9.6.2010, Thailand, Chiang Mai, 16 km W Mae Rim, 700 m, leg. G. SHOOK, 1 ♂.

Neocollyris (Leptocollyris) subtilis brachycephala (Horn, 1893)

Distribution: Thailand (Mae Hong Son, Chiang Mai, Tak, Phitsanulok, Loei, Nakhon Ratchasima, Chumphun), Myanmar, Laos.

Specimens examined: 9.6.2010, Thailand, Chiang Mai, 16 km W Mae Rim, 700 m, leg. G. SHOOK, 2 ♂♂.

Prothyma (Paraprothyma) schmidtgoebeli Horn, 1895

Distribution: Thailand (Mae Hong Son, Chiang Mai, Tak, Kanchanaburi, Sukhothai, Phitsanulok, Loei, Sakhon Nakhon), Myanmar, Laos, Vietnam.

Specimens examined: 12.5.2010, Thailand, Chiang Mai, Mae Sa Valley, leg. G. SHOOK, 2 ♂♂.

Prothyma (Genoprothyma) fallaciosa fallaciosa Rivalier, 1964

Distribution: Thailand (Chiang Mai, Tak, Kanchanaburi, Loei, Mukdahan, Yasothon), Laos, Vietnam.

Specimens examined: 12.5.2010, Thailand, Chiang Mai, Mae Sa Valley, leg. G. SHOOK, 1 ♂, 1 ♀.

Calochroa cariana (Gestro, 1893)

Distribution: Thailand (Kanchanaburi), Myanmar.

Specimens examined: 12.5.2010, Thailand, Chiang Mai, Mae Sa Valley, leg. G. SHOOK, 1 ♀.

Remarks: New record for Chiang Mai province.

Cosmodela duponti barmanica (Gestro, 1893)

Distribution: Thailand (Mae Hong Son, Chiang Mai).

Specimens examined: 28.4.2010, Thailand, Chiang Mai, Doi Suthep, leg. G. SHOOK, 1 ♂.

***Naviauxella davisoni* (Gestro, 1889)**

Distribution: Thailand (Chiang Rai, Chiang Mai), Myanmar, Laos.

Specimens examined: 12.5.2010, Thailand, Chiang Mai, Mae Sa Valley, leg. G. SHOOK, 1 ♂, 3 ♀♀; 18.5.2010, Thailand, Chiang Mai, Mae Sa Valley, leg. G. SHOOK, 1 ♂, 6 ♀♀; 25.5.2010, Thailand, Chiang Mai, 16 km W Mae Rim, leg. G. SHOOK, 3 ♂♂, 1 ♀; 9.6.2010, Thailand, Chiang Mai, 16 km W Mae Rim, 700 m, leg. G. SHOOK, 3 ♀♀.

***Cylinderera (Ifasina) viduata* (Fabricius, 1801)**

Distribution: Thailand (Mae Hong Son, Chiang Mai, Chiang Rai, Tak, Nan, Phitsanulok, Loei, Mukdahan, Nakhon Ratchasima, Chanthaburi, Ratchaburi, Ranong, Surat Thani, Nakhon Si Thammarat), India (Uttar Pradesh, Western Bengal, Meghalaya, Assam), Sikkim, Nepal, Bangladesh (Chittagong), Myanmar, Malaysia (Malacca, Borneo (Sarawak, Sabah)), Laos, Cambodia, Vietnam, Indonesia (Sumbawa, Sulawesi (S. Tengah, S. Selatan, S. Tenggara), Jawa, Bali, Sumatra (Aceh, S. Utara, Bengkulu, S. Selatan, Lampung)), Philippines (Palawan, Leyte, Tawitawi, Mindanao), Papua New Guinea (Western Province), China (Guangdong, Hainan, Hong Kong, Shanghai, Yunnan).

Specimens examined: 16.5.2010, Thailand, Chiang Mai, Samoeng, leg. G. SHOOK, 5 ♂♂, 5 ♀♀; 25.5.2010, Thailand, Chiang Mai, 16 km W Mae Rim, leg. G. SHOOK, 1 ♀; 6.6.2010, Thailand, Chiang Mai, Mai Rim, N Doi Suthep, leg. G. SHOOK, 2 ♂♂, 3 ♀♀.

***Cylinderera (Ifasina) viridilabris* (Chaudoir, 1852)**

Distribution: Thailand (Sakhon Nakhon), India (Haryana, Punjab, Himachal Pradesh, Uttar Pradesh, Madhya Pradesh, Orissa, Bihar), Nepal,?China (Guangdong, Hong Kong).

Specimens examined: 16.5.2010, Thailand, Chiang Mai, Samoeng, leg. G. SHOOK, 3 ♂♂, 3 ♀♀.

Remarks: New record for Chiang Mai province.

***Cylinderera (Ifasina) fallaciosa* (Horn, 1897)**

Distribution: Thailand (Mae Hong Son, Tak, Phitsanulok), India (Meghalaya), Bangladesh, Myanmar, Laos, Vietnam, China (Guangdong, Yunnan).

Specimens examined: 12.5.2010, Thailand, Chiang Mai, Mae Sa Valley, leg. G. SHOOK, 1 ♂.

Remarks: New record for Chiang Mai province.

Cylindera (Ifasina) spinolae spinolae (Gestro, 1889)

Distribution: Thailand (Mae Hong Son, Chiang Mai, Chiang Rai, Loei, Kanchanaburi, Ubon Ratchathani, Chanthaburi, Ranong, Nakhon Si Thamarat, Trang), Nepal, India (Meghalaya, Arunachal Pradesh, Assam, Western Bengal, Orissa, Bihar), Sikkim, Bangladesh, Myanmar, Laos, Cambodia, Vietnam, China (Yunnan).

Specimens examined: 24.4.2010, Thailand, Chiang Mai, Doi Suthep, leg. G. SHOOK, 1 ♂, 1 ♀; 28.4.2010, Thailand, Chiang Mai, Doi Suthep, leg. G. SHOOK, 1 ♀; 30.4.2010, Thailand, Chiang Mai, Huay Teung Tao, leg. G. SHOOK, 1 ♂; 3.5.2010, Thailand, Chiang Mai, Huay Teung Tao, leg. G. SHOOK, 4 ♀♀; 16.5.2010, Thailand, Chiang Mai, Samoeng, leg. G. SHOOK, 1 ♀.

Cylindera (Ifasina) spinolae koratensis Naviaux, 1991

Distribution: Thailand (Nakhon Ratchasima, Chanthaburi).

Specimens examined: 12.5.2010, Thailand, Chiang Mai, Mae Sa Valley, leg. G. SHOOK, 1 ♂.

Remarks: New record for Chiang Mai province.

Cylindera (Ifasina) kaleea kaleea (Bates, 1863)

Distribution: India (Assam, Arunachal Pradesh, Meghalaya), Sikkim, Myanmar, Laos, Vietnam, China (Beijing, Fujian, Gansu, Guangdong, Guangxi, Guizhou, Hebei, Henan, Hong Kong, Hubei, Hunan, Jiangxi, Shaanxi, Shandong, Shanghai, Sichuan, Yunnan, Zhejiang), Taiwan.

Specimens examined: 23.5.2009, Thailand, Lampang, Wang Nua, Ban Lao, leg. G. SHOOK, 1 ♀ (in coll. WU, XIAO-QIANG at the Southwest Forestry University, Kunming, Yunnan, China).

New record for Thailand.

Acknowledgements

The author is indebted to Peter SCHÜLE for the pictures and to Prof. David L. PEARSON for revising the English text.

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Zeitschrift/Journal: [Mitteilungen des Internationalen Entomologischen Vereins](#)

Jahr/Year: 2010

Band/Volume: [35_2010](#)

Autor(en)/Author(s): Wiesner Jürgen

Artikel/Article: [New Records of Tiger Beetles from Thailand with description of a new species \(Coleoptera: Cicindelidae\) 133-140](#)