



Checklist of Erotylinae (Coleoptera: Erotylidae) from Mêdog County, Xizang, China, with five new country records

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Abstract

Fourteen Erotylinae species from Mêdog County, Xizang, China are listed. Among these, five species are newly recorded for China: *Episcapha hypocrita* Heller, 1918, *Episcapha quadrimacula* (Wiedemann, 1823), *Nesitis discrepans* Bedel, 1882, *Aulacochilus oblongus* Arrow, 1925, and *Amblyopus substriatus* Gorham, 1896. All fourteen species are new records for Xizang. A key and distribution map for Erotylinae species known from Mêdog County are presented. Habitus images of the newly recorded species for the country are provided. This study documents the species composition of the subfamily Erotylinae in Mêdog County, providing valuable data for biodiversity conservation efforts in southeastern Xizang.

Key words: checklist, key, new record species, Mêdog County

Introduction

Mêdog County, Xizang (27°33'–29°55'N, 93°45'–96°05'E) is situated in the middle-lower reaches of the Yarlung Zangbo River (Figs 1, 2). Its vertical climate zones range from tropical rainforests to alpine tundra, with an annual average precipitation of 2,300 to 4,000 millimeters and a vegetation coverage rate reaching 85.3% (Li *et al.* 2024). This distinctive geographical pattern has fostered exceptionally rich biodiversity. However, comprehensive investigations into the subfamily Erotylinae (Coleoptera: Erotylidae) within this region have long been lacking.

The subfamily Erotylinae was erected by Latreille based on diagnostic characters such as capitate antennae, closed procoxal cavities, and 5-5-5 tarsal formula (Latreille 1802). Erotylinae is the largest subfamily within Erotylidae, comprising approximately 2,500 species grouped into five tribes (Dacnini, Megalodacnini, Encaustini, Tritomini, and Erotylini) (Leschen *et al.* 2010; McHugh & Chaboo 2015; Skelley 2020, 2021). Both adults and larvae of Erotylinae feed on fungi, typically inhabiting fungal fruiting bodies, though some species are found in subcortical spaces (Goodrich & Skelley 1994; Robertson *et al.* 2004; Leschen *et al.* 2010).

Our examination of specimens from Mêdog County, Xizang, led to the identification of fourteen Erotylinae species. This paper provides a checklist of these species and their detailed geographical distributions, along with habitus images for five new country records.

Material and methods

All specimens examined in this study are deposited in the Museum of Hebei University, Baoding, Hebei, China (MHBUS). Morphological examinations were conducted using a Nikon SMZ800N stereo microscope. Dorsal habitus imaging was performed with an Olympus E-M5 Mark II digital camera equipped with a macro lens and an integrated diffused lighting system. All images were processed and assembled into plates using Adobe Photoshop CS6.0. Morphological terminology follows Lawrence *et al.* (2010, 2011).

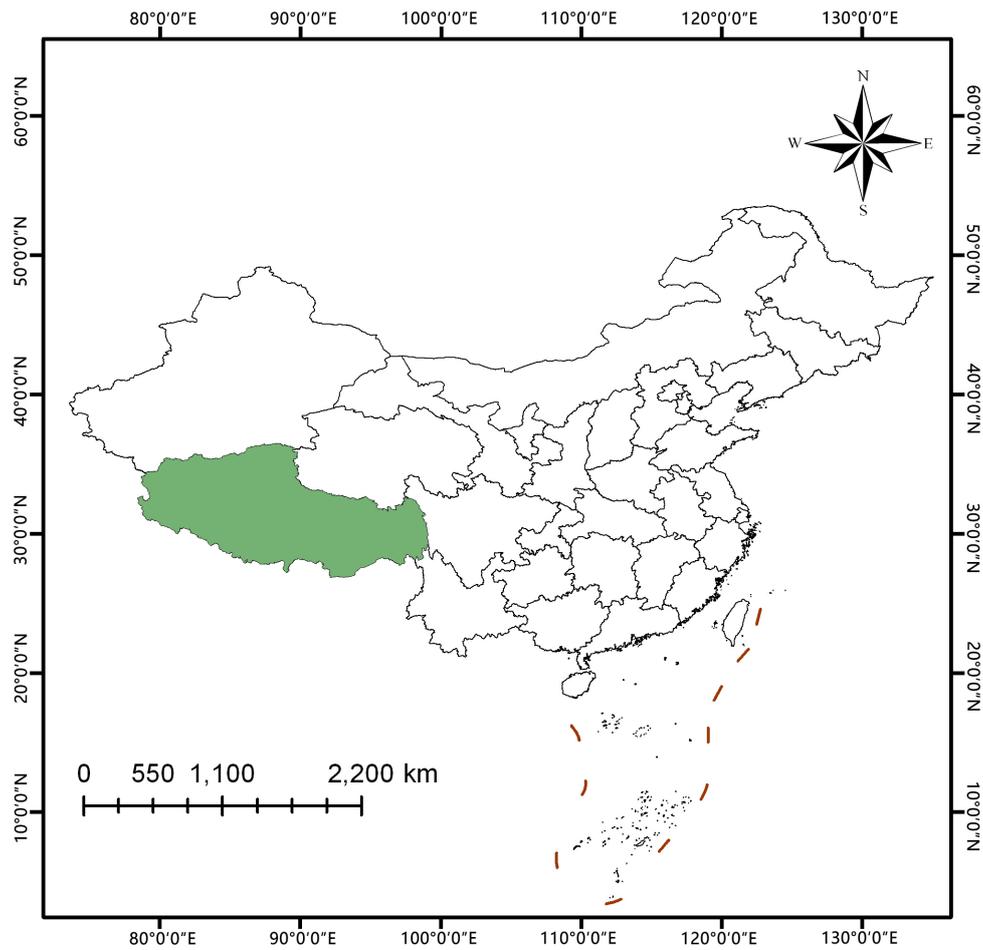


FIGURE 1. Map showing the geographical location of Xizang within China.

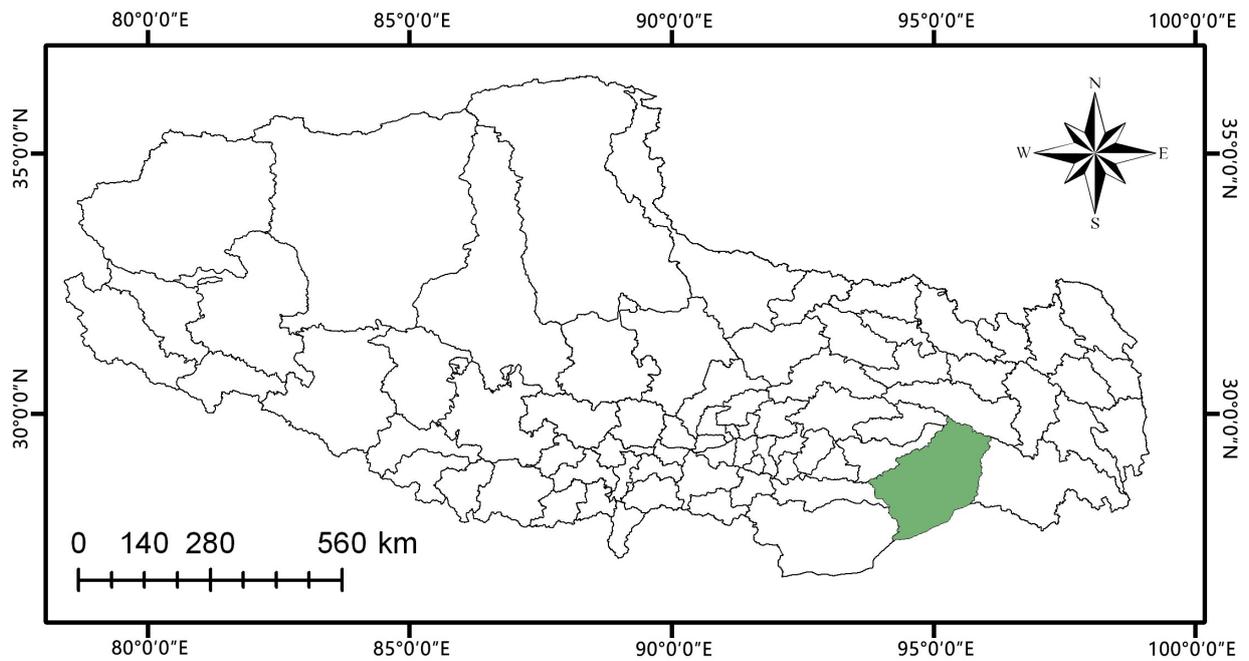


FIGURE 2. Map showing the geographical location of Mêdog County within Xizang.

Species checklist

The information for each species is organized in the follows: scientific name, author, year of publication, citation, collection data, and distribution; the latter is derived primarily from published literature and specimen records.

Tribe MEGALODACNINI Sengupta, 1969

Genus *Episcapha* Dejean, 1836

1. *Episcapha asahinai* (Chûjô, 1936)

(Fig. 3A)

Megalodacne asahinai Chûjô, 1936: 212.

Episcapha asahinai: Chûjô, 1969: 98.

Material examined. 5 ♂♂, 8 ♀♀, Xizang, Mêdog County, Dagmo Village, 29.489712°N, 95.463623°E, 1490 m, 13.v.2023, Xing-Long Bai leg. (MHBU).

Distribution. China: Taiwan, Hainan, Guizhou, Xizang. **New record for Xizang.**

2. *Episcapha flavofasciata* (Reitter, 1879)

(Fig. 3B)

Megalodacne flavofasciata Reitter, 1879: 223.

Episcapha flavofasciata: Reitter 1887: 5; Iablokoff-Khnzorian 1975: 218.

Episcapha hamata Lewis, 1879: 465. Synonymized by Iablokoff-Khnzorian 1975: 218.

Material examined. 5 ♂♂, 2 ♀♀, Xizang, Mêdog County, Zhai'bung Town, 29.235938°N, 95.168368°E, 754 m, 13. v. 2023, Xing-Long Bai leg. (MHBU); 3 ♂♂, 2 ♀♀, Xizang, Mêdog County, Zhai'bung Town, 29.228633°N, 95.141381°E, 794 m, 13.v.2023, Xing-Long Bai leg. (MHBU); 7♂♂, 4♀♀, Xizang, Mêdog County, Dagmo Village, 29.489712°N, 95.463623°E, 1490 m, 17.v.2023, Xing-Long Bai leg. (MHBU).

Distribution. China: Hebei, Shanxi, Henan, Zhejiang, Chongqing, Sichuan, Yunnan, Xizang; Russia; South Korea. **New record for Xizang.**

3. *Episcapha hypocrita* Heller, 1918

(Figs 3C, 4A)

Episcapha hypocrita Heller, 1918 (1920): 76.

Material examined. 1 ♂, Xizang, Mêdog County, Hanmi, 29.371026°N, 95.135296°E, 13.vii.2008, Guo-Dong Ren leg. (MHBU).

Distribution. China: Xizang; Indonesia. **New record for China.**

4. *Episcapha lugubris* Bedel, 1918

(Fig. 3D)

Episcapha lugubris Bedel, 1918: 119.

Material examined. 1 ♂, Xizang, Mêdog County, Zhai'bung Town, 29.247431°N, 95.180957°E, 11. viii. 2003, Guo-Dong Ren leg. (MHBU); 1 ♀, Xizang, Mêdog County, 29.327783°N, 95.337092°E, 14.viii.2003, Guo-Dong Ren leg. (MHBU).

Distribution. China: Guangxi, Sichuan, Yunnan, Xizang. **New record for Xizang.**

5. *Episcapha quadrimacula* (Wiedemann, 1823)

(Figs 3E, 4B)

Engis quadrimacula Wiedemann, 1823: 132.

Dacne quadrimacula: MacLeay 1825: 41.

Episcapha quadrimacula: Lacordaire 1842: 53.

Material examined. 1 ♂, Xizang, Mêdog County, 29.327783°N, 95.337092°E, 16. viii. 2003, Guo-Dong Ren leg. (MHBU).

Distribution. China: Yunnan, Xizang. **New record for China.**

Genus *Nesitis* Bedel, 1882

6. *Nesitis discrepans* Bedel, 1882

(Figs 3F, 4C)

Nesitis discrepans Bedel, 1882: 443.

Material examined. 1 ♂, 1 ♀, Xizang, Mêdog County, Dagmo Village 29.489712°N, 95.463623°E, 1490 m, 13.v.2023, Xing-Long Bai leg. (MHBU).

Distribution. China: Xizang; Indonesia. **New record for China.**

Tribe ENCAUSTINI Crotch, 1876

Genus *Aulacochilus* Chevrolat, 1836

7. *Aulacochilus luniferus* Chevrolat, 1836

(Fig. 3G)

Aulacochilus luniferus Chevrolat, 1836: 429.

Material examined. 4 ♂♂, 7 ♀♀, Xizang, Mêdog County, Zhai'bung Town, 29.247431°N, 95.180957°E, 13.viii.2003, Guo-Dong Ren leg. (MHBU).

Distribution. China: Beijing, Hebei, Shandong, Henan, Shaanxi, Anhui, Zhejiang, Hubei, Jiangxi, Taiwan, Guangdong, Hainan, Guangxi, Chongqing, Sichuan, Yunnan, Xizang; Malaysia; Indonesia. **New record for Xizang.**

8. *Aulacochilus oblongus* Arrow, 1925

(Figs 3H, 4D)

Aulacochilus oblongus Arrow, 1925: 89.

Material examined. 5 ♂♂, 8 ♀♀, Xizang, Mêdog County, Dagmo Village, 29.489712°N, 95.463623°E, 1490 m, 13.v.2023, Xing-Long Bai leg. (MHBU).

Distribution. China: Zhejiang, Guangdong, Guangxi, Yunnan, Xizang; India; Myanmar; Vietnam; Thailand; Cambodia; Sri Lanka; Malaysia; Indonesia. **New record for China.**

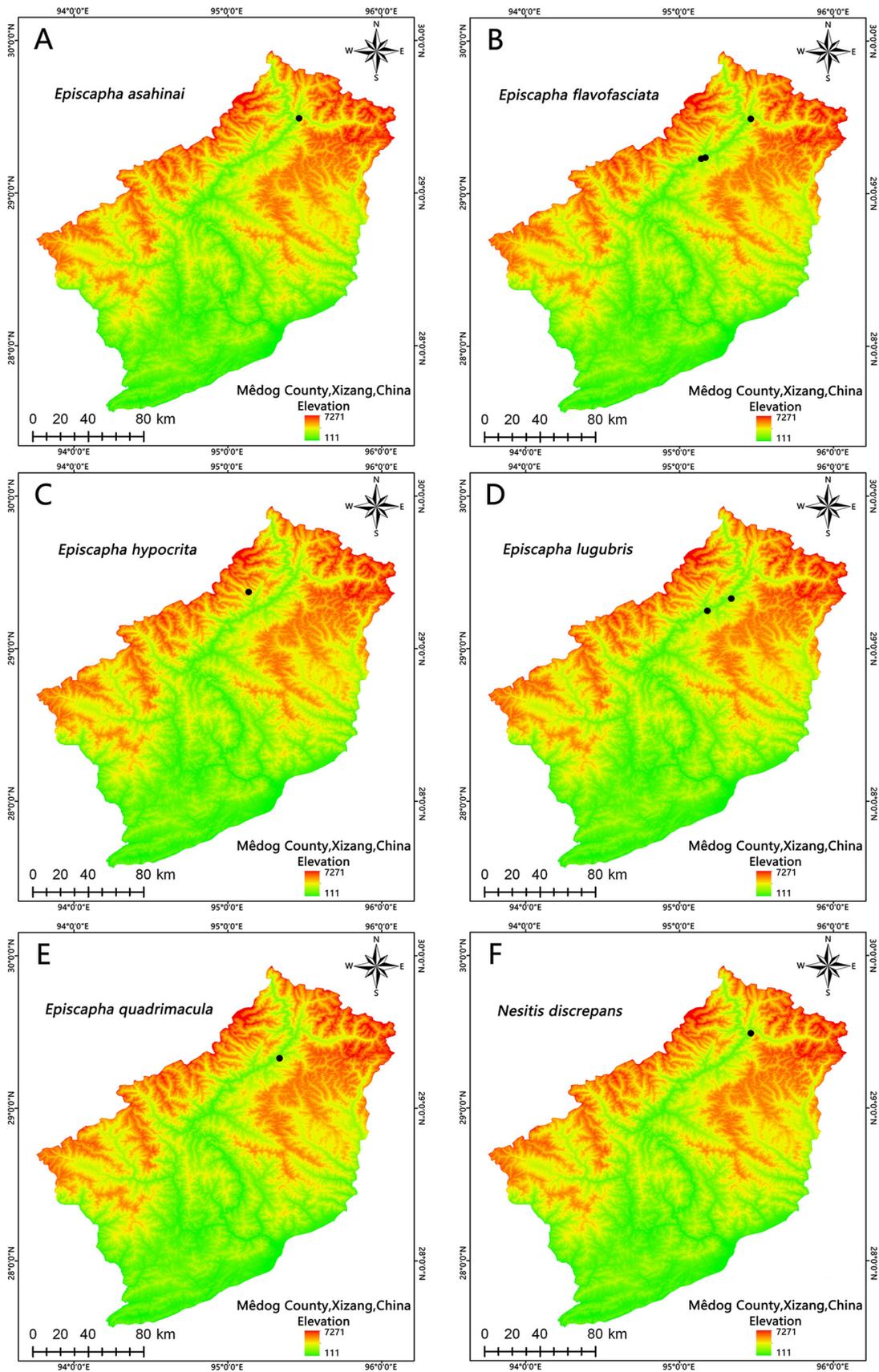


FIGURE 3. Distribution of Erotylinae species from Mêdog County. **A.** *Episcapha asahinai*. **B.** *Episcapha flavofasciata*. **C.** *Episcapha hypocrita*. **D.** *Episcapha lugubris*. **E.** *Episcapha quadrimacula*. **F.** *Nesitis discrepans*. **G.** *Aulacochilus luniferus*. **H.** *Aulacochilus oblongus*. **I.** *Aulacochilus sericeus*. **J.** *Aulacochilus sibiricus*. **K.** *Aulacochilus taliensis*. **L.** *Dactylotritoma wolongensis*. **M.** *Neotriplax miwai*. **N.** *Amblyopus substriatus*.

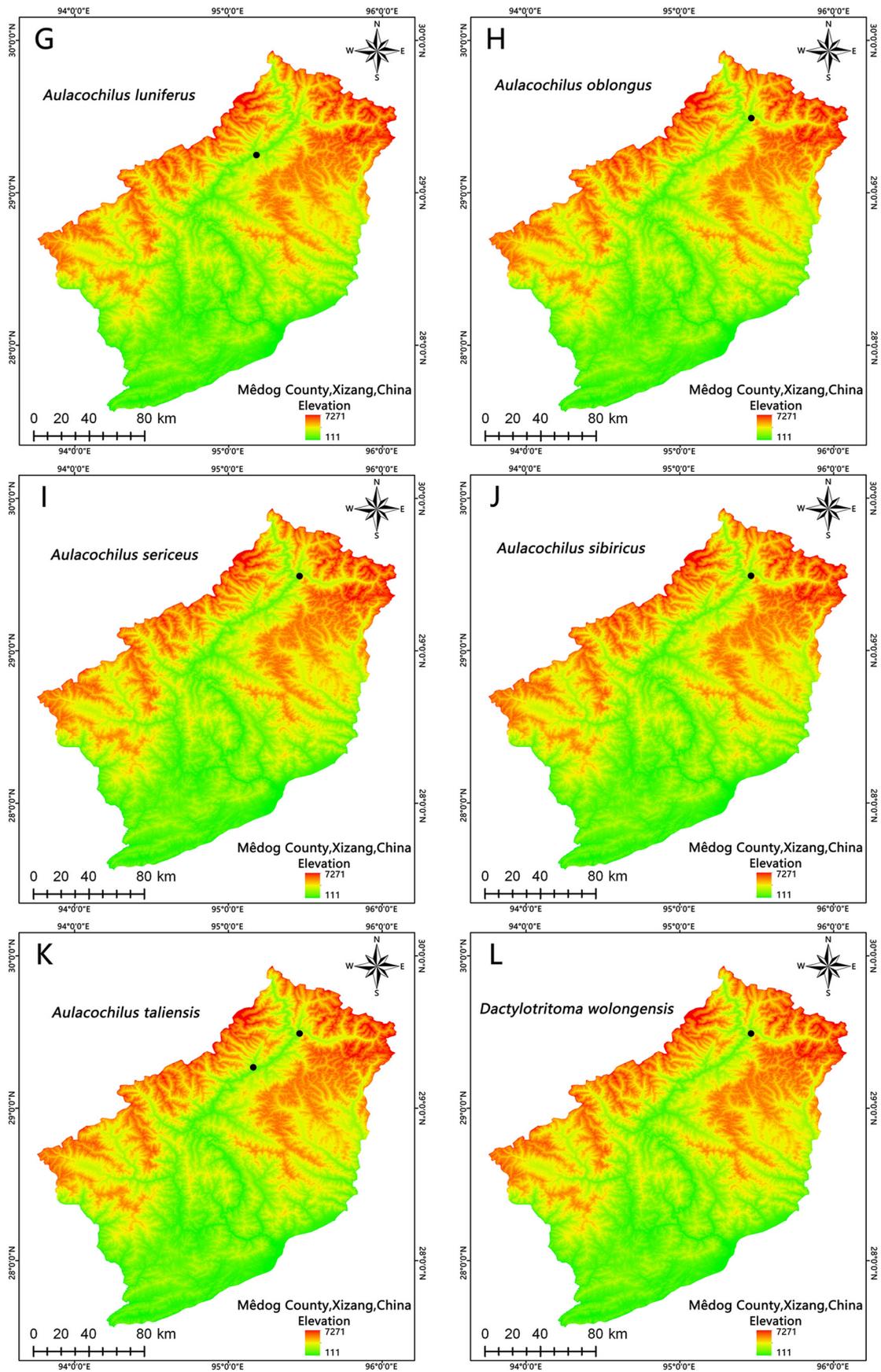


FIGURE 3. (Continued).

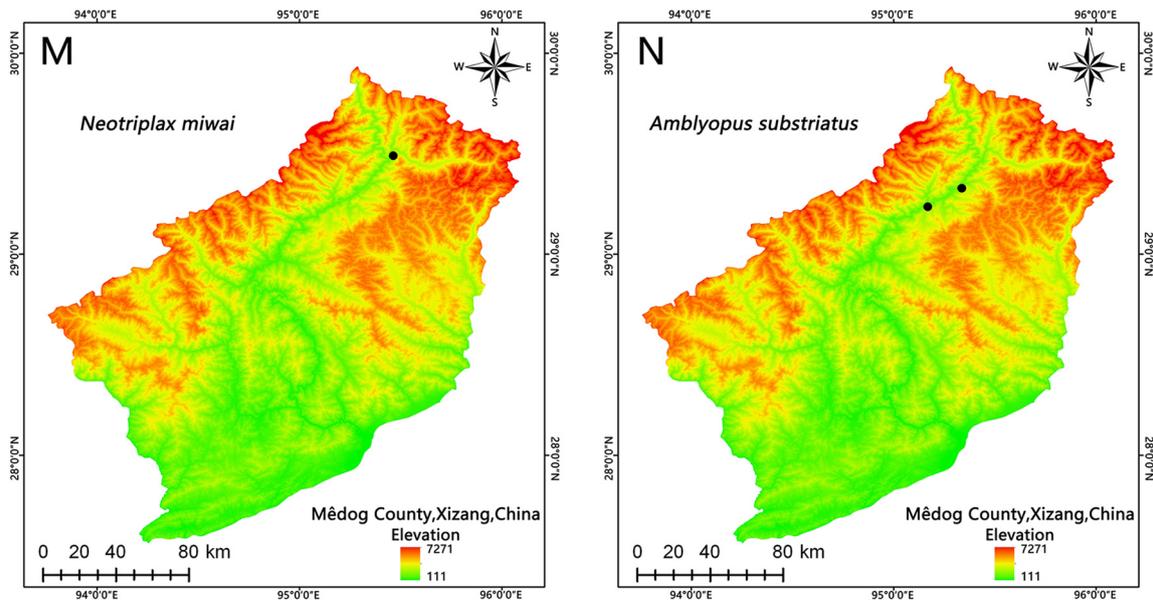


FIGURE 3. (Continued).

9. *Aulacochilus sericeus* Bedel, 1871

(Fig. 3I)

Aulacochilus sericeus Bedel, 1871: 282.

Material examined. 1 ♂, 1 ♀, Xizang, Médog County, Dagmo Village, 29.489712°N, 95.463623°E, 1490 m, 13. v. 2023, Xing-Long Bai leg. (MHBU).

Distribution. China: Yunnan, Xizang; Myanmar; Vietnam; Thailand, Philippines; Malaysia; Indonesia. **New record for Xizang.**

10. *Aulacochilus sibiricus* Reitter, 1879

(Fig. 3J)

Aulacochilus sibiricus Reitter, 1879: 223.

Material examined. 3 ♂♂, 2 ♀♀, Xizang, Médog County, Dagmo Village, 29.489712°N, 95.463623°E, 1490 m, 13. v. 2023, Xing-Long Bai leg. (MHBU).

Distribution. China: Henan, Xizang; Russia; Japan. **New record for Xizang.**

11. *Aulacochilus taliensis* Achard, 1922

(Fig. 3K)

Aulacochilus taliensis Achard, 1922 (1923): 48.

Material examined. 2 ♂♂, 2 ♀♀, Xizang, Médog County, Dagmo Village, 29.489712°N, 95.463623°E, 1490 m, 13.v.2023, Xing-Long Bai leg. (MHBU); 2 ♀♀, Xizang, Médog County, Zhai'bung Town, Bading Village, 29.267787°N, 95.162203°E, 1190 m, 17.v.2023, Xing-Long Bai leg. (MHBU).

Distribution. China: Guangxi, Sichuan, Yunnan, Xizang. **New record for Xizang.**

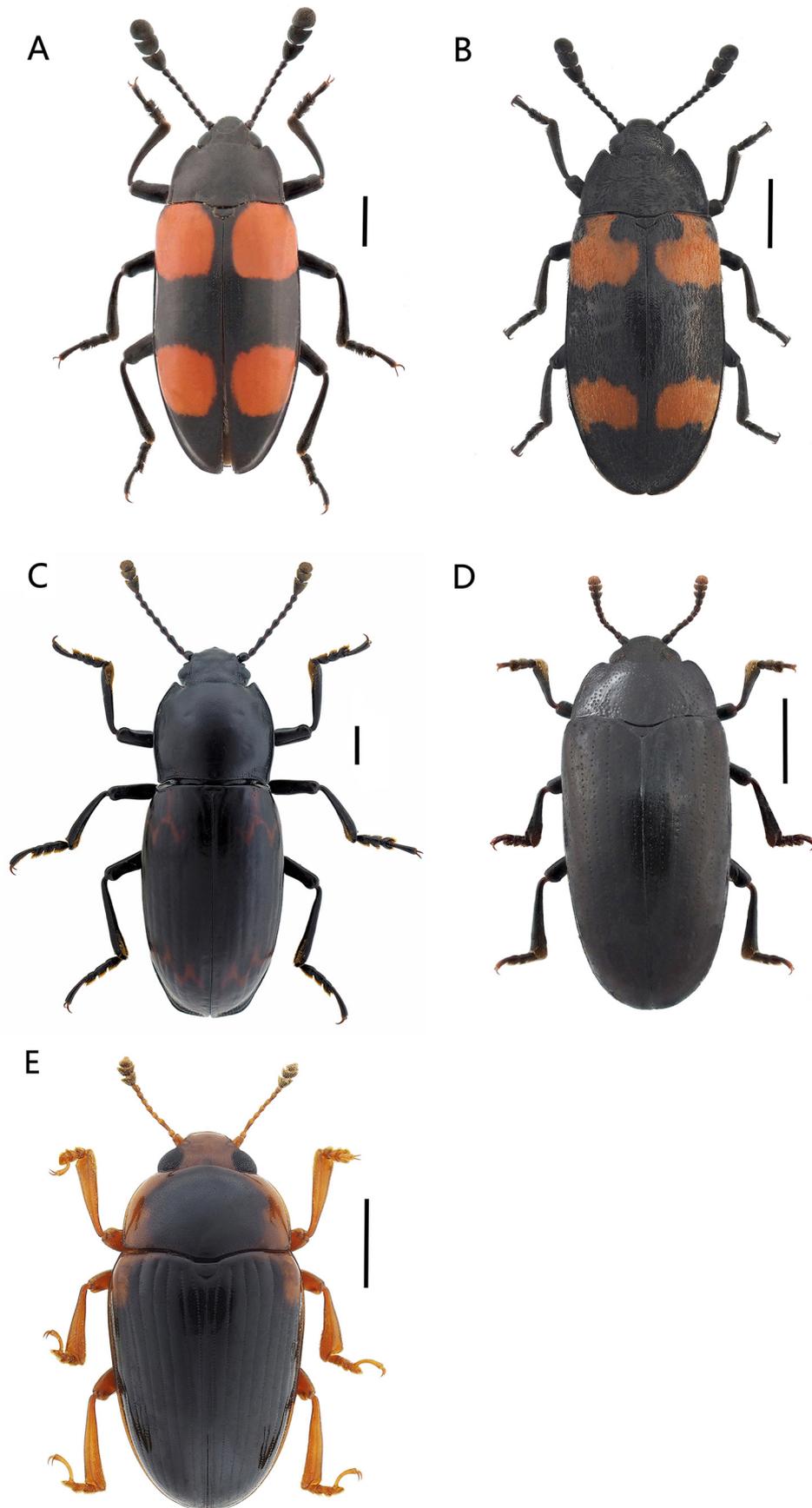


FIGURE 4. Dorsal habitus of newly recorded species for China. **A.** *Episcapha hypocrita*. **B.** *Episcapha quadrimaculata*. **C.** *Nesitis discrepans*. **D.** *Aulacochilus oblongus*. **E.** *Amblyopus substriatus*. Scale bars: 2 mm.

Tribe TRITOMINI Curtis, 1834

Genus *Dactylotritoma* Arrow, 1925

12. *Dactylotritoma wolongensis* Li & Ren, 2006

(Fig. 3L)

Dactylotritoma wolongensis Li & Ren, 2006: 185.

Material examined. 1 ♂, 1 ♀, Xizang, Mêdog County, Dagmo Village, 29.489712°N, 95.463623°E, 1490 m, 13. v. 2023, Xing-Long Bai leg. (MHBUS).

Distribution. China: Sichuan, Xizang. **New record for Xizang.**

Genus *Neotriplax* Lewis, 1887

13. *Neotriplax miwai* Nakane, 1966

(Fig. 3M)

Neotriplax miwai Nakane, 1966: 63.

Material examined. 5 ♂♂, 3 ♀♀, Xizang, Mêdog County, Dagmo Village, 29.489712°N, 95.463623°E, 1490 m, 13.v.2023, Xing-Long Bai leg. (MHBUS).

Distribution. China: Zhejiang, Hubei, Taiwan, Guangxi, Chongqing, Sichuan, Xizang. **New record for Xizang.**

Genus *Amblyopus* Chevrolat, 1837

14. *Amblyopus substriatus* Gorham, 1896

(Figs 3N, 4E)

Amblyopus substriatus Gorham, 1896: 281; Arrow 1925: 98.

Amblyopus concolor Kuhnt, 1910: 232. Synonymized by Arrow 1925: 98.

Material examined. 1 ♀, Xizang, Mêdog County, 29.327783°N, 95.337092°E, 15.viii. 2003, Guo-Dong Ren leg. (MHBUS); 1 ♂, Xizang, Mêdog County, Zhai'bung Town, 29.235938°N, 95.168368°E, 754 m, 14.v.2023, Xing-Long Bai leg. (MHBUS).

Distribution. China: Xizang; India; Myanmar; Sri Lanka. **New record for China.**

Key to species of Erotylinae from Mêdog

1	Maxillary terminal palpomere not transverse	2
–	Maxillary terminal palpomere transverse	7
2	Hindwings vestigial	<i>Nesitis discrepans</i> Bedel, 1882*
–	Hindwings fully developed	3
3	Pronotum and elytra with basal border margined; elytral punctures arranged in striae	<i>Episcapha asahinai</i> (Chûjô, 1936)
–	Pronotum and elytra with basal border non-margined; elytral punctures irregularly scattered.	4
4	Elytron with one closed black spot at humeral angle	5
–	Elytron without closed black spot at humeral angle	6
5	Prosternal lines present	<i>Episcapha flavofasciata</i> (Reitter, 1879)
–	Prosternal lines absent	<i>Episcapha lugubris</i> Bedel, 1918
6	First elytral patch dentate	<i>Episcapha quadrimacula</i> (Wiedemann, 1823)*
–	First elytral patch rounded	<i>Episcapha hypocrita</i> Heller, 1918*

7	Submentum with both sides carinate	8
–	Submentum with both sides forming flat lobes	12
8	Body uniformly black or dark blue	9
–	Body bicoloured, with distinct color pattern	11
9	Metaventrite with fine punctures	<i>Aulacochilus oblongus</i> Arrow, 1925*
–	Metaventrite with coarse punctures	10
10	Antennomere III shorter than 2.5 times the length of IV	<i>Aulacochilus sibiricus</i> Reitter, 1879
–	Antennomere III longer than 2.5 times the length of IV	<i>Aulacochilus sericeus</i> Bedel, 1871
11	Each elytron with a single patch	<i>Aulacochilus luniferus</i> Chevrolat, 1836
–	Each elytron with two patches	<i>Aulacochilus taliensis</i> Achard, 1922
12	Compound eye large, pronotum with patch	<i>Amblyopus substriatus</i> Gorham, 1896*
–	Compound eye small, pronotum without patch	13
13	Body red, scutellar shield broadly triangular	<i>Neotriplax miwai</i> Nakane, 1966
–	Body orange, scutellar shield broadly pentagonal	<i>Dactylotritoma wolongensis</i> Li & Ren, 2006

Note: asterisk marks indicate new country records for China.

Acknowledgments

We are grateful to Dr. Xing-Long Bai (MHBHU) for providing specimens and the ecological photograph, and to Paul Skelley (Florida State Collection of Arthropods, Florida, USA) and the handling editor for improving a previous version of the manuscript. This work was supported by the Natural Science Foundation of Hebei Province (grant no. C2023204114) and the Survey of Wildlife Resources in Key Areas of Xizang (grant no. ZL202203601).

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墨脱大蕈甲亚科Erotylinae物种名录及五中国新纪录种（鞘翅目：大蕈甲科）

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摘要: 记述墨脱县大蕈甲亚科Erotylinae 14种, 包括5个中国新纪录种, 即红斑艾蕈甲*Episcapha hypocrita*、四斑艾蕈甲*Episcaphaquadrinaculata*、细纹奈蕈甲*Nesitis discrepans*、细沟蕈甲*Aulacochilus oblongus*和微带玉蕈甲*Amblyopussubstriatus*。所有14种均为西藏新纪录种; 提供了墨脱县大蕈甲亚科已知种的分种检索表和分布图, 并附中国新纪录种整体特征图。研究结果明确了墨脱县大蕈甲亚科物种组成, 为藏东南大蕈甲亚科多样性保护提供了重要基础数据。

关键词: 名录; 检索表; 新纪录种; 墨脱县