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FOUR NEWLY RECORDED TO CHINA SPECIES OF THE GENUS *THEMUS* MOTSCHULSKY, 1857 (COLEOPTERA: CANTHARIDAE)

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Summary. Four species of the subgenus *Haplothemus* Wittmer, 1973 (*Themus cacharensis* Champion, 1926, *T. lamellatus* Wittmer, 1973, *T. probsti* Wittmer, 1993, and *T. reymondi* Bourgeois, 1907) are firstly recorded from China. *Themus cacharensis* is transferred from the nominotypical subgenus to the subgenus *Haplothemus*.

Key words: Coleoptera, Cantharidae, *Themus*, *Haplothemus*, taxonomy, new records, China.

Юй-Ся Ян¹⁾, Юань-Юань Лу²⁾, Син-Кэ Ян^{3)*}. Четыре новых для Китая вида рода *Themus* Motschulsky, 1857 (Coleoptera, Cantharidae) с таксономической заметкой // Дальневосточный энтомолог. 2012. N 242. С. 1-6.

Четыре вида подрода *Haplothemus* Wittmer, 1973 (*Themus cacharensis* Champion, 1926, *T. lamellatus* Wittmer, 1973, *T. probsti* Wittmer, 1993 и *T. reymondi* Bourgeois, 1907) впервые указываются из Китая. *Themus cacharensis* переводится из номинативного подрода в подрод *Haplothemus*.

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INTRODUCTION

The subgenus *Haplothemus* of *Themus* Motschulsky, 1857 was proposed by Wittmer (1973), it was redefined by Švihla (2008) and characterized by the pronotum with lateral margins moderately or slightly diverging posteriorly, elytra parallel-sided or slightly dilated posteriorly, yellow, brown, sooty, iron grey to nearly black, at most with slightly plumbeous or cupreous metallic shine. This subgenus is mainly distributed in Central Asia and Himalaya area, some species spreads to southwestern China.

Until now, the subgenus *Haplothemus* has 42 species and subspecies occurring in China. In the present study four species are firstly recorded from China. These new records are all based on the specimens collected in Xizang (Figs. 7-10).

The examined specimens are deposited in the Naturhistorisches Museum Basel, Switzerland (NHMB), Muséum National d'Histoire Naturelle, Paris, France (MNHN), Institute of Zoology, Chinese Academy of Sciences, Beijing, China (IZAS) and Hebei University Museum, Baoding, China (HBUM). The distributions map is made by the geographic information system software ArcView GIS 3.2, based on the database of all the specimens examined in this study and the literatures.

NEW RECORDS AND TAXONOMIC NOTE

Genus *Themus* Motschulsky, 1857 Subgenus *Haplothemus* Wittmer, 1973

Type species: *Themus (Haplothemus) gracilis* Wittmer, 1973, by original designation.

***Themus (Haplothemus) cacharensis* Champion, 1926**

Figs 1, 5, 8

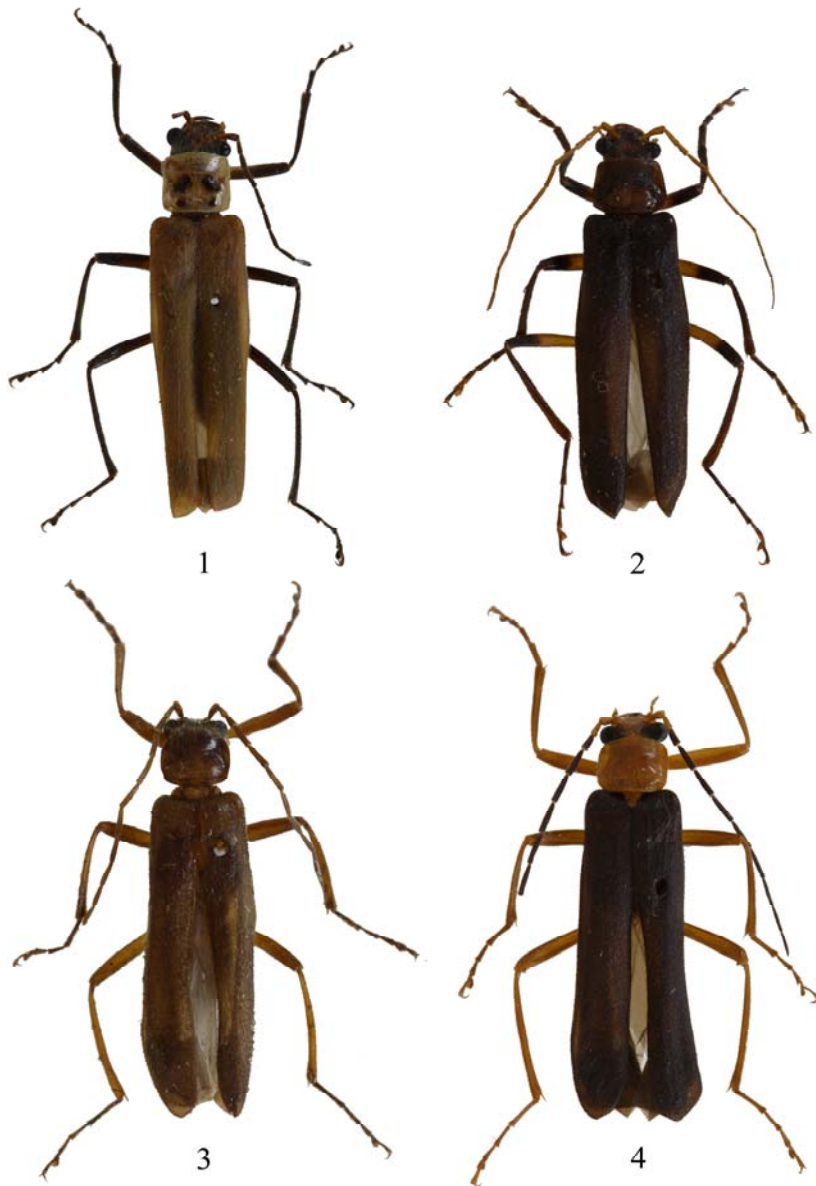
Themus cacharensis Champion, 1926: 132 (type locality: India, E. Assam, N. Cachar hills).

Themus (s.str.) *cacharensis*: Wittmer, 1973: 193, 223, figs. 47, 48.

MATERIAL. Burma [**Myanmar**]: Mishmi Hills, Lohit River, 24.III 1935, 1 ♂ (M. Steele leg.) (NHMB). **India**: Assam, Chug, 7150-7300 ft, 14.IV 1961, 1 ♂ (F. Schmid leg.) (NHMB); Assam, Kameng, Nynkmadong, 6600-8000 ft, 14.IV 1961, 1 ♂ (F. Schmid leg.) (NHMB). **China**: Xizang, Médog, 1000-1200 m, 28.III 1983, 1 ♀ (Z. Lin leg.) (IZAS); Xizang, (Médog), Xigonghu, 1450 m, 11.V 1983, 1 ♀ (Y. H. Han leg.) (IZAS).

DISTRIBUTION. China (Xizang), Myanmar, India.

TAXONOMIC NOTE. By the redefinition of the subgenera of *Themus* (Švihla, 2008), this species is transferred herein from the subgenus *Themus* to *Haplothemus*. This species is firstly recorded to China. Also, the female abdominal sternite VIII is firstly illustrated here.



Figs. 1-4. Habitus of *Themus* spp., dorsal view: 1 – *T. cacharensis*, female; 2 – *T. lamellatus*, male; 3 – *T. probsti*, male; 4 – *T. reymondi*, male.

***Themus (Haplothemus) lamellatus* Wittmer, 1973**

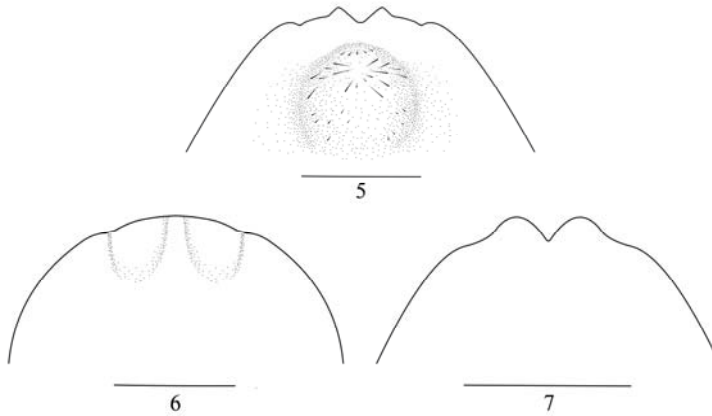
Figs 2, 6, 9

Themus (Haplothemus) lamellatus Wittmer, 1973: 198, figs. 10, 11 (type locality: Myanmar, Mt. Victoria Chin hills); Okushima, 1999: 57, fig. 7; Kopetz, 2004: 136: Abb. 17.

MATERIAL. Burma [**Myanmar**]: Mt. Victoria Chin hills, 2400-2800 m, V 1938, 1 ♂ (G. Heinrich leg.) (paratype, NHMB). **China**: Xizang, Bomi, Yi'ong, 2300 m, 20.VIII 1980, 1 ♂ (Y. H. Han leg.) (IZAS); Xizang, Zayü, 16-17.VII 2005, 1 ♂, 3 ♀ (A. M. Shi leg.) (HBUM); same data, 17.VII 2005, 2 ♀ (HBUM); Xizang, Zayü, Shang Zayü, 14.VII 2005, 1 ♂ (A. M. Shi leg.) (HBUM); Xizang, Zayü, Miankung, 4-5.VII 2005, 1 ♀ (A. M. Shi leg.) (HBUM); Xizang, Mêdog, Hanmi, 2380 m, 9.VIII 2003, 1 ♀ (G. D. Ren leg.) (HBUM).

DISTRIBUTION. China (Xizang), Myanmar, India.

REMARKS. Herein this species is firstly mentioned from China. Also, the female abdominal sternite VIII is illustrated for the first time.



Figs. 5-7. Female abdominal sternite VIII, ventral view: 5 – *Themus cacharensis*; 6 – *T. lamellatus*; 7 – *T. probsti*. Scale bars = 1 mm.

***Themus (Haplothemus) probsti* Wittmer, 1993**

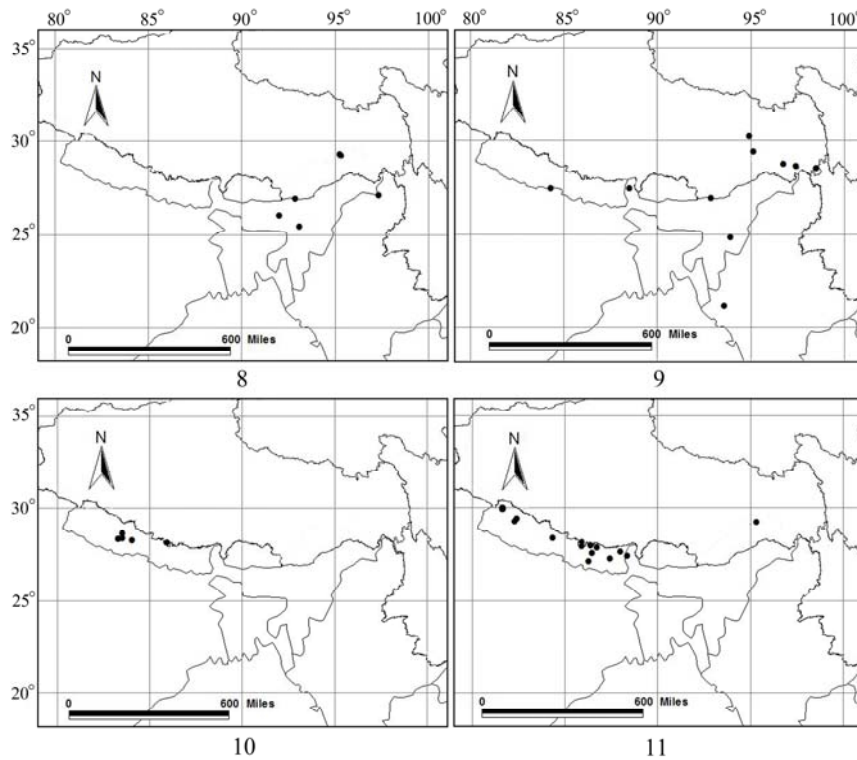
Figs. 3, 7, 10

Themus (Haplothemus) probsti Wittmer, 1993: 208, Abb. 6, 7 (type locality: Nepal, Myagdi Distr., Ghorepani); Kopetz, 2004: 138.

MATERIAL. W **Nepal**: Myagdi Distr., Ghorepani, 2800-3000 m, 11.VI 1986, 1 ♂ (J. Probst lgt.) (holotype, NHMB). **China**: Xizang, Zham, Quxam, 3400 m, 7.VII 1975, 3 ♂, 2 ♀ (F. S. Huang leg.) (IZAS).

DISTRIBUTION. China (Xizang), Nepal.

REMARKS. This species is firstly recorded to China. It is the first time to illustrate the abdominal sternite VIII of female for this species here.



Figs. 8-11. Distribution maps of *Themus* spp.: 8 – *T. cacharensis*; 9 – *T. lamellatus*; 10 – *T. probsti*; 11 – *T. reymondi*.

***Themus (Haplothemus) reymondi* Bourgeois, 1907**

Figs. 4, 11

Themus reymondi Bourgeois, 1907: 291 (type locality: Nepal, Tseram).

Themus (s.str.) *reymondi*: Wittmer, 1973: 190, 203, fig. 16; Okushima, 1999: 57, figs. 4, 29; Kopetz, 2004: 127.

Themus (Haplothemus) reymondi: Švihla, 2008: 184.

MATERIAL. **India:** Sikkim, au delà du Jalep, Août, 1901, 1 ♂ (MNHN). **Nepal:** Taplejung Distr., upper Simbua Khola Valley, Abies-Tsuga forest, 2900-3100 m, 15.V 1988, 1 ♂ (J. Martens & W. Schawaller leg.) (NHMB). **China:** Xizang, Nyalam, Zham, 2250 m, 19.V 1974, 1 ♂ (X. Z. Zhang leg.) (IZAS); Xizang, Nyalam, Zham, 2600 m, 5.V 1966, 1 ♂ (S. Y. Wang leg.) (IZAS); Xizang, Zham, Quxam, 6.VII 1975, 1 ♂ (F. S. Huang leg.); Xizang, Mêdog, Namula, 3800 m, 28.VII 1978, 1 ♀ (Y. H. Han leg.) (IZAS).

DISTRIBUTION. China (Xizang), India, Nepal.

REMARKS. Herein this species is firstly mentioned from China.

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