

## New records of three species and one genus of the tribe Mesosini from China, with notes on *Golsinda basicornis* Gahan (Coleoptera: Cerambycidae: Lamiinae)

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**Abstract:** *Coptops ocellifera* Breuning, 1965, *Ereis subfasciata* Pic, 1925 and *Leptomesosa langana* (Pic, 1917) are recorded from China for the first time, of which the genus *Ereis* Pascoe, 1865 is the first record from China. *Golsinda basicornis* Gahan, 1894 is a new province record from Guizhou, China. *Mesocacia rugicollis* Gressitt, 1940 is synonymized with *Golsinda basicornis* and the lectotype and paralectotypes of *G. basicornis* are designated.

**Key words:** Polyphaga; Chrysomeloidea; taxonomy; new synonymy

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## 中国象天牛族一新纪录属、三新纪录种和圆尾长臂象天牛分类订正（鞘翅目：天牛科：沟胫天牛亚科）

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**摘要:** 报道中国象天牛族 3 新纪录种: 齿带瘤象天牛 *Coptops ocellifera* Breuning, 1965, 黑带埃象天牛 *Ereis subfasciata* Pic, 1925 和哈朗瘦象天牛 *Leptomesosa langana* (Pic, 1917)。其中埃象天牛属 *Ereis* Pascoe, 1865 是中国新纪录属。圆尾长臂象天牛 *Golsinda basicornis* Gahan, 1894 是贵州省新纪录种, 皱胸角象天牛 *Mesocacia rugicollis* Gressitt, 1940 被作为圆尾长臂象天牛的新异名, 并指定了圆尾长臂象天牛的正副选模标本。

**关键词:** 多食亚目; 叶甲总科; 分类; 新异名

### Introduction

According to the Titan database (Tavakilian & Chevillotte 2014), the tribe Mesosini

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Thomson, 1860 contains about 600 species in 72 genera. Among them, 15 genera and 95 species have been recorded from China in the Palaearctic Catalogue of Löbl & Smetana (2010). Since the catalogue, four genera and eight species were added to the Chinese mesosine fauna by Yamasako & Lin (2010), Yamasako & Ohbayashi (2011, 2012), Weigel *et al.* (2013), Bi (2013), and Yamasako & Chou (2013, 2014). In this paper, we record three species as new to China, and synonymize *Mesocacia rugicollis* Gressitt, 1940 with *Golsinda basicornis* Gahan, 1894. As a result there are 20 genera and 105 species of Mesosini known from China.

## Material and methods

Materials are deposited in the following institutes or private collections; abbreviations as shown in the text:

BPBM—Bernice P. Bishop Museum, Honolulu, USA

CAU—China Agricultural University, Beijing, China

CAW—Private collection of Andreas Weigel, Wernburg, Germany

CBWX—Private collection of Wen-Xuan Bi, Shanghai, China

CCCC—Private collection of Chang-Chin Chen, Tianjin, China

CKM—Private collection of Kazuki Mori, Kagoshima, Japan

CZCH—Private collection of Cheng-Hui Zhan, Guangdong, China

EUMJ—Ehime University Museum, Matsuyama, Japan

IZAS—Institute of Zoology, Chinese Academy of Sciences, Beijing, China

MCSNG—Museo Civico di Storia Naturale di Genova “Giacomo Doria”, Genova, Italy

MNHN—Muséum National d'Histoire Naturelle, Paris, France

NHML—The Natural History Museum, London, UK

SYSU—Sun-Yat-sen University, Guangzhou, China

## Taxonomy

### 1. *Coptops ocellifera* Breuning, 1965 (Figs. 1, 2), new record to China

*Coptops ocellifera* Breuning, 1965: 37, fig. Type locality: Laos, Xieng Khouang Prov., Plain of Jars. Type depository: BPBM.

*Coptops ocellifera*: Rondon & Breuning, 1970: 343, fig. 7h.

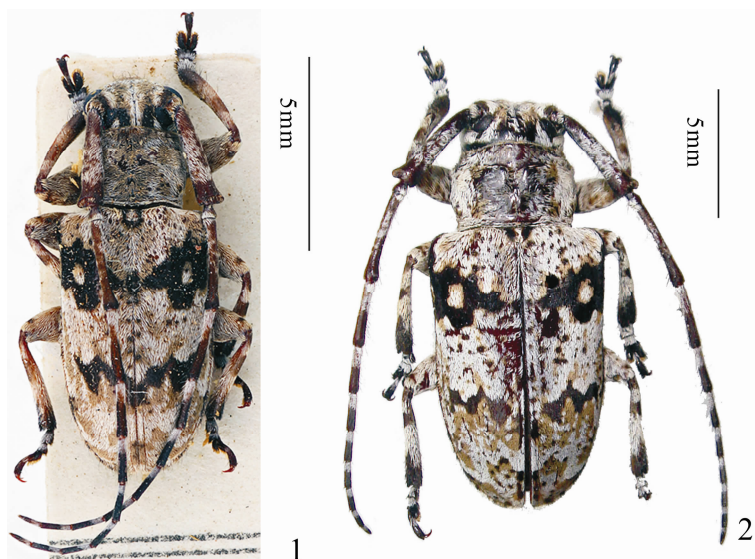
**Type specimens examined.** 1♂ (Holotype) (Fig. 1), Laos, P. des Jarres, 20-III-1964 (indicated as April 1964 in the original literature) (Type No. 8497, ex J. A. Rondon Collection, BPBM).

**Other specimens examined.** China, Yunnan: 1♀ (Fig. 2), Xishuangbanna, 30-V-1958 (IZAS, IOZ(E)1905294); 1♂, Xiping County, Ailaoshan Mountain, 01-11-V-2006, leg. Native collector (EUMJ). Laos: 1♀, Houa Pan Prov., Ban Saleui, 13-18-V-2005, leg. J. Yamasako (EUMJ); 1♀, Xieng Khouang Prov., Near Phou Samsoum, IV-VI-2006, leg. H. Wakahara (EUMJ).

Distribution. China (Yunnan); Laos.

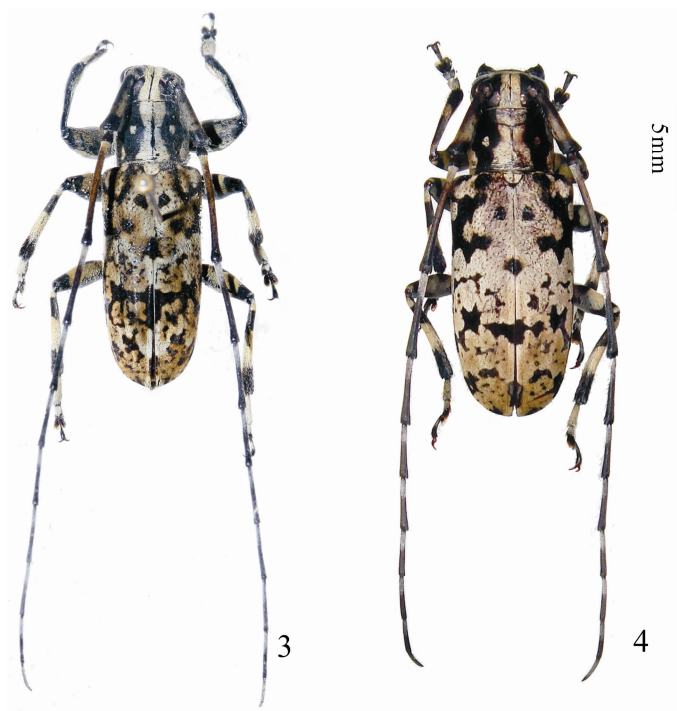
Remarks. There are 42 species of the genus *Coptops* Audinet-Serville 1835 all over the world (Tavakilian & Chevillotte 2014), and 12 species of them are known from China (Löbl & Smetana 2010; Yamasako & Lin 2010). This is the 13th species of the genus recorded from

China.



Figures 1, 2. *Coptops ocellifera* Breuning, 1965. Habitus. 1. Holotype (BPBM), male, from Xieng Khouang of Laos, picture taken by Junsuke Yamasako; 2. Female from Yunnan of China.

2. *Ereis subfasciata* Pic, 1925 (Figs. 3, 4), new record to China



Figures 3, 4. *Ereis subfasciata* Pic, 1925. Habitus. 3. Male, from Guangxi of China, picture taken by ZHAN Chenghui; 4. Female, from Hainan of China. Scale = 5 mm.

*Ereis subfasciata* Pic, 1925: 25. Type locality: Vietnam, Mt. Mauson. Type depository: MNHN.

**Specimens examined.** **China**, Guangxi: 1♂ (Fig. 3), Wuming, Damingshan, 21–30-VI-2013, leg. Local collector (CZCH); 1♀, Jinxiu, Linhaishanzhuang, alt. 1000 m, 02-VII-2000, leg. CHEN Jun (IZAS). Hainan: 3♀, Ledong County, Jianfengling, Tianchi Bishushanzhuang, alt. 950 m, 18–19-V-2011, leg. LIN Wenhsin (IZAS, IOZ(E) 1904722 & CCCC); 1♀ (Fig. 4), same data but 27-V-2011 (IZAS); 1♀, Jianfengling, Mingfenggu, alt. 950–1000 m, 18-V-2011, leg. BI Wenxuan (CBWX). **Vietnam**, 4♂4♀, Tam Dao, Vinh Phu Prov., V-1994, leg. Native (CKM); 9♂5♀, same locality, but 01–07-V-1996, leg. Y. Arita (EUMJ); 1♀, Sapa, Lao Cai Prov., 27–31-V-1996, leg. S. Ueno (EUMJ).

Distribution. China (Hainan, Guangxi); Vietnam.

Remarks. The genus *Ereis* Pascoe, 1865 comprises 7 species distributed in Southeast Asia, although no congeners of this genus had been known from China. This is the first species of this genus known from China.

### 3. *Golsinda basicornis* Gahan, 1894 (Figs. 5–10)

*Golsinda basicornis* Gahan, 1894: 48. Type locality: Myanmar, Ghecù District, Carin, alt. 1300–1400 m. Type depository: MCSNG.

*Golsinda basicornis*: Aurivillius, 1922: 135; Breuning, 1938: 388; 1959: 49; Rondon & Breuning, 1970: 319, fig. 1a; Yamasako & Mikihara, 2011: 67; Weigel *et al.*, 2013: 55.

*Mesocacia rugicollis* Gressitt, 1940: 121, pl. 7, fig. 3. Type locality: China, Hainan Island, Sam-kwong-ts'uen, Lam-wan-tung. Type depository: SYSU. **syn. nov.**

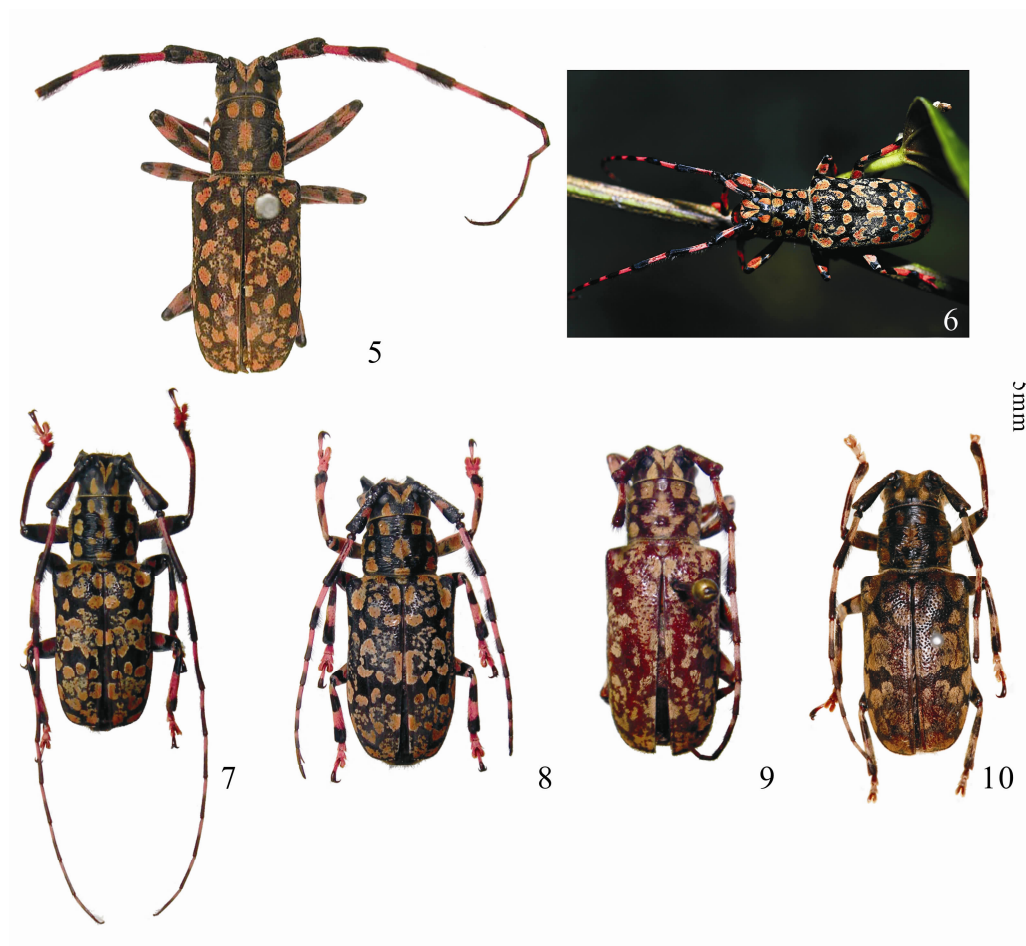
*Mesocacia rugicollis*: Gressitt, 1951: 425; Pu, 1980: 98, pl. 10, fig. 134; Hua, 2002: 215; Hua *et al.*, 2009: 88, 223, pl. LXXXVIII, fig. 1013; Löbl & Smetana, 2010: 271.

**Type specimens examined.** *Golsinda basicornis*: Lectotype: newly designed among the syntypes (Fig. 9), female, “Carin Ghecù / 1300–1400 m / L. Fea, II-III.88.”, “Typus”, “*basicornis* Gahan”, “SYNTYPUS / *Golsinda* / *basicornis* / Gahan, 1894”, “*Golsinda* / *basicornis* / Gahan / sp. n.”, “*Golsinda* / *basicornis* / Gahan”, “Museo Civico / di Genova” (MCSNG, examined by the first author in 2008). Paralectotypes: 1 male, “Carin Ghecù / 1300-1400m / L. Fea, II-III.88.”, “SYNTYPUS / *Golsinda* / *basicornis* / Gahan, 1894” (MCSNG, examined by pictures taken by Y. Yokoi and R. Ogawa); 1 male (Fig. 5), “Siam”, “Type”, “*Golsinda* / *basicornis* / Type Gahan” (NHML, examined by the second author in 2013).

*Mesocacia rugicollis*: 1♀ (Holotype), (Fig. 10), South China, Hainan Is., Sam-kwong-ts'uen, Lam-wan-tung (Loi Territory) in Kiung-shan District (near Lai-mo-ling, Loi Mother Mountain = Limuling in modern transcription), 16–18-VIII-1935, leg. F. K. TO (SYSU).

**Other specimens examined.** **China**, Yunnan: 1♂, Xishuangbanna, Menghun, alt. 1200–1400 m, 18-V-1958, leg. HONG Chunpei (IZAS); 1♂2♀ (Figs. 7, 8), Xishuangbanna, Menglun, Lvshilin, 21.91035°N, 101.28085°E, alt. 647 m, 22-IV-2011, leg. LIANG Hongbin by light trap (IZAS, IOZ(E) 1904711–13); 1♀, Xishuangbanna, Mengla, alt. 620–650 m, 09-VI-1959, leg. PU Fuji (IZAS); 1♀, Menglongbanna, Mengsong, alt. 1600 m, 26-IV-1958, leg. PU Fuji (IZAS); 1♂, Xiaomengyang, alt. 850 m, 03-V-1957, leg. Panfilov (IZAS); 1♀, Yunnan, Xishuangbanna, NRWNR, vic. Mandian, 26-IV-2009, EKL, forest, leg. A. Weigel (CAW, examined by first author through pictures). Guizhou: 1♀ (Fig. 6), Maolan (examined through an ecological picture taken by LI Hu, and the related specimen was deposited in CAU). **Vietnam**: 2♂2♀, Tam Dao, Vinh Phu Prov., VI–VII-1992, leg. Native (EUMJ); 1♂2♀,

same locality but V-1994, Native leg (CKM); 1♀, same locality but 01–07-V-1996, leg. Y. Arita (EUMJ). **Laos:** 1♀, Khong Islands, Champassack Prov., 15-IV-1965 (EUMJ); 1♂, Phou Khao Khouay, Vientiane Prov., 31-V-1965 (EUMJ); 1♂, Pakkading, Bolikhamsai Prov., 10-VI-1965 (EUMJ). **Thailand:** 1♂, Doipui, Chiang Mai, 22-IV-1983, leg. H. Kan (EUMJ); 1♀, Phrae Wangehin, 17-VI-1996, leg. Native (EUMJ).



Figures 5–10. *Golsinda basicornis* Gahan, 1894. Habitus. 5. Paralectotype (NHML), male, from Thailand, picture taken by Junsuke Yamasako; 6. Female, from Guizhou of China, picture taken by LI Hu. 7. Male, from Yunnan of China; 8. Female, from Yunnan of China; 9. Lectotype (MCSNG), female from Ghecù; 10. *Mesocacia rugicollis* Gressitt, 1940, syn. nov. holotype (SYSU), female, from Hainan of China, picture taken by Nobuo Ohbayashi. 5, 6 & 9 not to scale. Others scale = 5 mm.

**Distribution.** China (Hainan, Guizhou (new province record), Yunnan); Vietnam; Bangladesh; Laos; Myanmar; Thailand.

**Lectotype designation.** Gahan (1894) described this species based on several syntypes from different localities as: Carin (district of Ghecù), alt. 1300–1400 m; Siam, Laos, and Allahabad. The range of body length of these types were 14–22 mm. In order to fix the concept of this species and ensure universal and consistent interpretation of this species, the

designation of a lectotype is required. There are one male and one female syntypes from “Carin (district of Ghecu)” deposited in MCSNG and one male syntype (Fig. 5) from “Siam” in NHML, but no syntypes from Laos and Allahabad are available in this study. Of the syntypes from “Carin (district of Ghecu)” in MCSNG, only a female syntype is labeled with “*Golsinda basicornis* Gahan” (Gahan’s handwriting). By this evidence, we therefore designate the female syntype as the lectotype (Fig. 9, deposited in MCSNG).

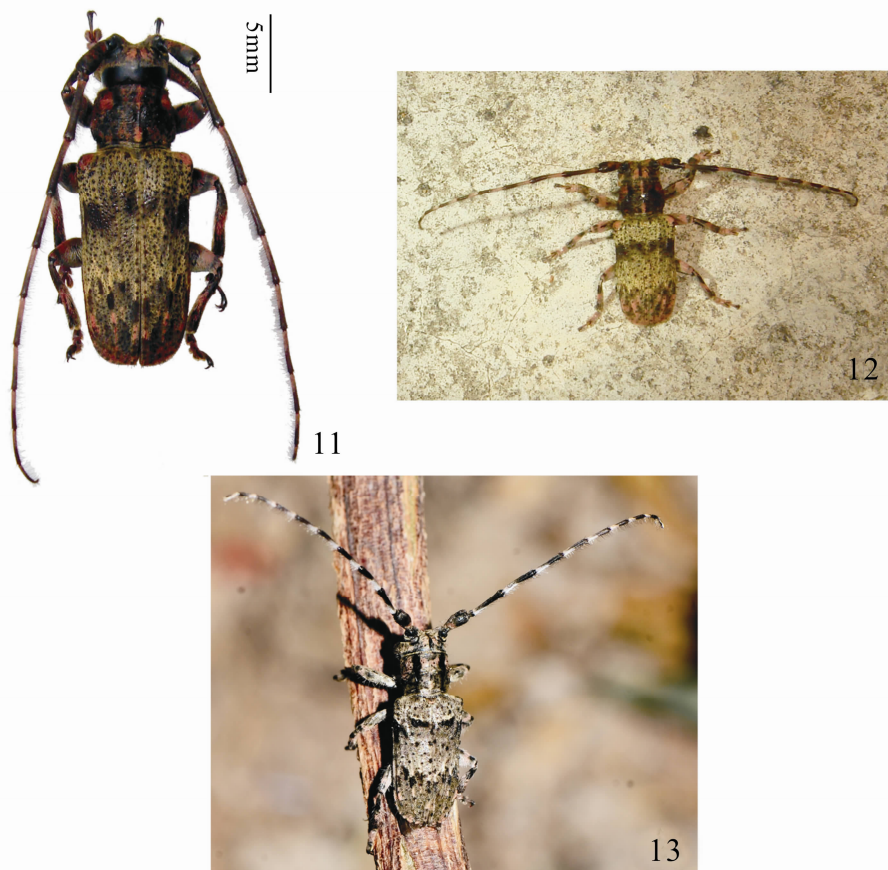
Taxonomic note. *Mesocacia rugicollis* was described by Gressitt (1940) from Hainan, China. However, this species is different from *Mesocacia* Heller, 1926 in having the eyes emarginated instead of subdivided (generic character of *Mesocacia*), but is well in accordance to the genus *Golsinda* Pascoe, 1857 (Breuning, 1938). Additionally, this species has no significant differences with *G. basicornis* in the external characters. For these reasons, *Mesocacia rugicollis* is herein synonymized with *G. basicornis*.

#### 4. *Leptomesosa langana* (Pic, 1917) (Figs. 11, 12), new record to China

*Mesosa langana* Pic, 1917: 12. Type locality: Vietnam, Tonkin. Type depository: MNHN.

*Mesosa langana*: Aurivillius, 1922: 140.

*Leptomesosa langana*: Breuning, 1938: 392; 1959: 49.



Figures 11–13. 11, 12. *Leptomesosa langana* (Pic, 1917). Habitus. 11, 12. Male, from Hainan of China; 13. *Leptomesosa cephalotes* (Pic, 1903), Habitus, male, from Yunnan of China, picture taken by WU Chao.

**Specimens examined.** **China**, Hainan: 2♂ (Fig. 12), Wuzhishan Nat. Rev. Guanliju (manage station), 18.90840°N, 109.67359°E, alt. 708 m, 11-IV-2010, leg. LIN Meiyong by light trap (IZAS, IOZ(E) 1904714–15); 1♀, Ledong County, Jianfengling, Tianchi Bishushanzhuang, alt. 950 m, 27-V-2011, leg. LIN Wenhsin (CCCC); 1 female, Jianfengling, Mingfenggu, alt. 950–1000 m, 23-V-2011, leg. BI Wenxuan (CBWX). **Vietnam**: 1♂, Tam Dao, Vinh Phu Prov., 27–29-V-1996, coll. T. Kurihara (EUMJ).

Distribution. China (Hainan); Vietnam.

Remarks. This genus consists of three species: *L. cephalotes* (Pic, 1903) (China and Laos, Fig. 13, Wang & Chiang, 1988), *L. langana* (Pic, 1917) (Vietnam and China) and *L. mimor* Breuning, 1974 (Cambodia). In this paper, *L. langana* (Pic, 1917) is reported from China for the first time.

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