

## Taxonomic notes on three species described by Fu-Ji Pu (Coleoptera, Cerambycidae)

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### Abstract

Based on the comparison of type specimens and study on some additional material, three species described by Fu-Ji Pu and Carolus Holzschuh are studied: *Dundaia subtuberculatus* (Pu, 1992) comb. nov. = *Dundaia nitens* Holzschuh, 1993 syn. nov., *Thranius obliquefasciatus* Pu, 1992 = *Thranius capucinus* Holzschuh, 1993 syn. nov., *Ulochaetes vacca* Holzschuh, 1982 = *Ulochaetes fulvus* Pu, 1988 syn. nov. Some new localities are reported.

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### Key words

new synonym, new combination, new locality, Cerambycidae, China

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### Introduction

The first author is working in Institute of Zoology, Chinese Academy of Sciences (IZAS) and a part of her job is managing the Coleoptera type collection. She sent some type pictures to colleagues as requested and also helped with copying and translating some Chinese literatures. Based on these works, some species described by Fu-Ji Pu have become to be known to European colleagues. As a result, three species were found to be described both by Fu-Ji Pu and Carolus Holzschuh. They are: *Dundaia subtuberculatus* (Pu, 1992) comb. nov. = *Dundaia nitens* Holzschuh, 1993 syn. nov., *Thranius obliquefasciatus* Pu, 1992 = *Thranius capucinus* Holzschuh, 1993 syn. nov., *Ulochaetes vacca* Holzschuh, 1982 = *Ulochaetes fulvus* Pu, 1988 syn. nov.

We report these taxonomic notes, showing the holotype pictures and add some new localities when available.

Types and other material studied are deposited in the following institutions or private collections:

- CBWX: Collection of Wenxuan Bi, Shanghai, China.  
CCCC: Collection of Chang-chin Chen, Tianjin, China.  
CCH: Collection of Carolus Holzschuh, Villach, Austria.  
CPK: Collection of Petr Kabátek, Prague, Czech Republic.  
CTT: Collection of Tomáš Tichý, Opava, Czech Republic.  
IZAS: Institute of Zoology, Chinese Academy of Sciences, Beijing, China.  
MBFU: Museum of Beijing Forestry University, Beijing, China.  
NMB: Naturhistorisches Museum, Basel, Switzerland (including ex Museum G. Frey, Tutzing).

## Results

### *Dundaia subtuberculata* (Pu, 1992) comb. nov.

*Callidium subtuberculatus* Pu, 1992: 597, pl. II, fig. 9. (*sic*, should be *subtuberculatum*)

*Dundaia nitens* Holzschuh, 1993: 33, fig. 37. **syn. nov.**

*Callidium subtuberculatus* (*sic*): Hua et al. 2009: 451.

*Callidium (Callidium) subtuberculatum*: Hubweber et al., 2010: 151.

*Dundaia nitens*: Hua et al. 2009: 454; Hubweber et al., 2010: 151.

*Type specimens examined.* — HOLOTYPE of *Callidium subtuberculatus* (*sic*) Pu, 1992, female, China, Sichuan Prov., Hongyuan, alt. 3400-3600 m, 1983-VIII-6, leg. Xue-Zhong Zhang (*in* IZAS, IOZ(E)217682). HOLOTYPE of *Dundaia nitens* Holzschuh, 1993, male, China, Sichuan Prov., Kangding distr., Hailuogou (misspelled as Hailougou) Glacier Park, 1992-VII-21/24 (*in* CCH).

*Other specimens examined.* — Shaanxi: 1 female, Shaanxi prov., Qing Ling Shan track to Hou Zen Zi (=Houzhenzi) vill. to Taibai Shan, 1998-VI-27/29, 2500 m, mixed forest, leg. Z. Jindra, O. Safránek & M. Trýzna (CCH). Sichuan: 1 female, Sichuan prov., Moxi vill. env., 40 km S of Luding, Hailuogou glacier park, Gongga mt., 2000-3200 m, 1995-VIII-14/20, leg. J. Schneider (*in* CCH); 2 males 1 female, W Sichuan, Jiulong Co., Takahe valley, 2500-4000 m, 28°45'-29°09'N & 101°42'-50'E, 2001-VII-2/10, leg. L. & R. Businský (*in* CCH).

*Distribution.* — China: Sichuan, Shaanxi (new province record).

*Remarks.* — The second author was the first person who suggested the first author this synonym. After getting clear holotype picture of *Callidium subtuberculatus* Pu, 1992, he wrote (personal communication in 2013-XII-17): "So *Callidium subtuberculatum* is *Dundaia*. I think there is no "stridulationsflache am mesonotum" (similarly to *Callidium* and *Oupyrrhidium*); it has shorter segment 3 of antennae (as opposed to *Callidium* and *Oupyrrhidium*); uneven elytra surface; upright lateral tubercles on pronotum, etc. Although "subtuberculatum" is female and *Dundaia nitens* is male, in my opinion the latter should be synonym of the former." This mes-

sage was shown to Carolus Holzschuh and he answered (personal communication in 2014-I-2009): "I also would say that my species is a synonym of *Dundaia subtuberculatum* comb. nov. - also at the same time described *Thranius capucinus* and *T. obliquefasciatus*! That time I have had no knowledge about Pu's paper. If you like, you can publish both!"

*Dundaia* Holzschuh, 1993 contains only one species up to date.

### *Thranius obliquefasciatus* Pu, 1992

*Thranius obliquefasciatus* Pu, 1992: 596, pl. I, fig. 7.

*Thranius capucinus* Holzschuh, 1993: 31, fig. 35. **syn. nov.**

*Thranius capucinus*: Hua *et al.*, 2009: 469; Hubweber *et al.*, 2010: 205.

*Thranius obliquefasciatus*: Hua *et al.*, 2009: 469; Hubweber *et al.*, 2010: 206.

*Type specimens examined.* — HOLOTYPE of *Thranius obliquefasciatus* Pu, 1992, male, China, Yunnan, Weixi, Pantiange, alt. 2920 m, 1981-VII-22, leg. Xue-Zhong Zhang (*in* IZAS, IOZ(E) 217772). PARATYPES of *Thranius obliquefasciatus* Pu, 1992: ALLOTYPE, female, Yunnan, Lijiang, Yulongshan, 1962-VII-30, leg. Shi-Mei Song (*in* IZAS, IOZ(E) 217773); 1 female PARATYPE, Yunnan, Lijiang, 1982-VII-30, leg. Shi-Mei Song (*in* IZAS, IOZ(E) 217774); 1 male PARATYPE, Yunnan, Yongsheng, Liude, alt. 2250 m, 1984-VII-9, leg. Da-Jun Liu (*in* IZAS, IOZ(E) 217775); 1 male PARATYPE, terribly broken (without head and prothorax), Yunnan, Zhongdian, Chongjianghe, alt. 2300 m, 1984-VIII-4, leg. Da-Jun Liu (*in* IZAS, IOZ(E) 217776). HOLOTYPE of *Thranius capucinus* Holzschuh, 1993, male, China, Yunnan, 35 km N of Lijiang, Heishui (27° 13' N, 100° 19' E), 1992-VII-1/19, leg. Eduard Jendek (*in* CCH); 3 males 4 females PARATYPES with same data (*in* CCH).

*Other specimens examined.* — Yunnan: 1 female, Yunnan, Lushui County, Pianma, alt. 2100 m, 2010-VI-25, leg. Wen-Xuan Bi (*in* CBWX); 1 male 1 female, NW Yunnan, Haba Shan - Haba, 3200 m, 27°22'54.3"N, 100°06'03.2"E, 2005-VII-2, leg. M. Janata (*in* CCH); 1 female, same data (*in* CTT); 1 female, Yunnan, Yulong Xueshan, Heishui, alt. 2950 m, dead female sitting on a leave of fallen *Quercus* sp., 2009-VII-23, leg. T. Tichý (*in* CTT).

*Distribution.* — China: Yunnan.

*Remarks.* — Holzschuh did not know the literature of Pu (1992), which is the reason this species was described twice (personal communication). According to the species examined it is clear that females have 8<sup>th</sup> and 9<sup>th</sup> antennomeres light yellow colored, while all antennomeres are uniformly colored in males.

### *Ulochaetes vacca* Holzschuh, 1982

*Ulochaetes vacca* Holzschuh, 1982: 65, fig. 3.

*Ulochaetes fulvus* Pu, 1988: 295, 303, fig. 2. **syn. nov.**

*Ulochaetes fulvus*: Hua, 2002: 235; Hua *et al.*, 2009: 470; Hubweber *et al.*, 2010: 142.

*Ulochaetes vacca*: Hubweber *et al.*, 2010: 142.

*Type specimens examined.* — HOLOTYPE of *Ulochaetes vacca* Holzschuh, 1982, female, Bhutan, Sha Gogona (belongs to Wangdue Phodrang Province), alt. 3100 m, 1972-VII, leg. F. Maurer (*in NMB*). PARATYPE of *Ulochaetes vacca* Holzschuh, 1982, 1 male, same data to holotype but *in CCH*. HOLOTYPE of *Ulochaetes fulvus* Pu, 1988, female, Xizang, Motuo (Medog), alt. 2000 m, 1983-VIII-20, leg. Yin-Heng Han (*in IZAS, IOZ(E)217668*).

*Other specimens examined.* — Bhutan: 1 female, West Bhutan, Thimphu Prov., Taba, 2500-2600 m, 1990-VIII-15/22, on wing, flying like a bumble bee, C. Holzschuh (*in CCH*). Xizang: 5 males, 2 females, Xizang, Cuona, Gongrixiang to Rangcun, alt. 3200 m, 2013-VII-3, leg. Wen-Xuan Bi (*in CBWX*); 1 female, same data but 2013-VII-2 (*in CBWX*); 1 female, Xizang, Motuo (Medog), Hanmi, Dayandong, alt. 2700 m, 2013-VIII-1, leg. Wen-Xuan Bi (*in CBWX*). Yunnan: 1 female, Yunnan Prov., Yulongshan mts., Ganhaizi pass, 3000-3500 m, 27°06'N, 100°15'E, 1990-VII-18/23, V. Kubán (*in CCH*); 1 female, Yunnan, Chuxiong, Dayao, Santaixiang, Xiaobaicaoling, 2013-V-29, leg. Xiao-Dong Yang (*in CCCC*). Shaanxi: 1 female, Qinling, Huoditang, 2007, leg. YQ08 first group (*in BFU*). Sichuan: 2 female, Sichuan, 56 km W from Jiuzhaigou, Zhongcha vill., 33°16.648'N, 103°48.900'E, 2433m, 2012-VII-2 & 7, leg. P. Kabátek (*in CPK*).

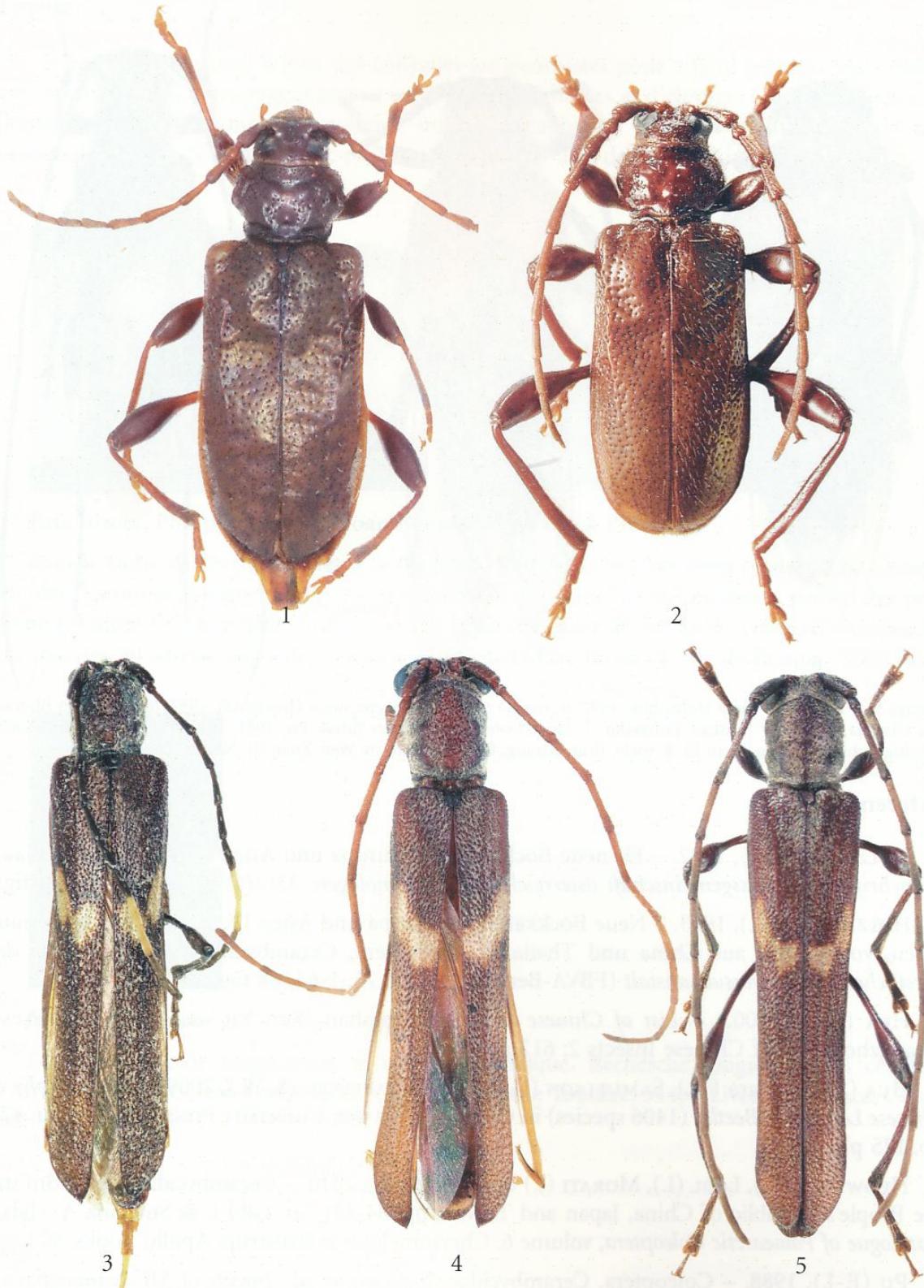
*Distribution.* — China: Xizang, Yunnan (new province record), Shaanxi (new province record), Sichuan (new province record); Bhutan: Wangdue Phodrang Prov, Thimphu Prov. (new province record).

*Remarks.* — Pu (1988) did not know the literature of Holzschuh (1982), which is the reason this species was described twice. She (Pu, 1988) only compared *Ulochaetes fulvus* with the type species *U. leoninus* LeConte, 1854, a species distributed in North America.

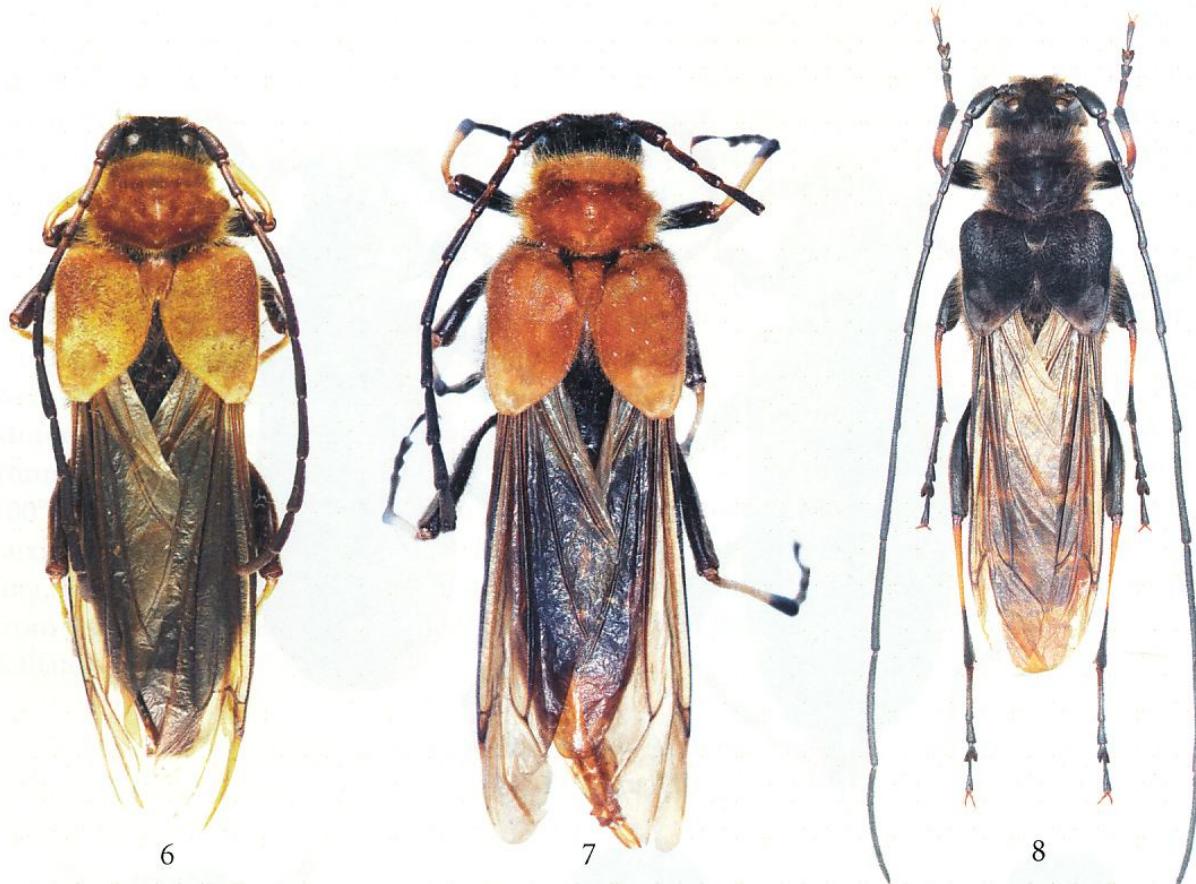
The coloration of this species is quite variable. The antennae usually black but sometimes fulvous to brown in females' second to fifth antennomeres; the pronotum and elytra usually black in male and fulvous in female but sometimes black or partly black in female, also male elytra sometimes fulvous; the femora usually black but sometimes fulvous in female; the abdomen varied from mostly fulvous, partly black to completely black.

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Figures 1–2. *Dundaia subtuberculata* (Pu, 1992). 1. HOLOTYPE of *Callidium subtuberculatus* Pu, 1992, female, from Sichuan Prov., Hongyuan, photo by Xin-Lei Huang. 2. HOLOTYPE of *Dundaia nitens* Holzschuh, 1993, male, from Sichuan Prov., Kangding, photo by Luboš Dembický. Scale 2 mm. Figures 3–5. *Thranius obliquefasciatus* Pu, 1992. 3. ALLOTYPE of *Thranius obliquefasciatus* Pu, 1992, female, from Yunnan Prov., Lijiang, photo by Xin-Lei Huang. 4. HOLOTYPE of *Thranius obliquefasciatus* Pu, 1992, male, from Yunnan Prov., Weixi, photo by Wen-Xuan Bi. 5. HOLOTYPE of *Thranius capucinus* Holzschuh, 1993, male, from Yunnan Prov., Lijiang, photo by Luboš Dembický.



Figures 6–8. *Ulochaetes vacca* Holzschuh, 1982. 6. HOLOTYPE of *Ulochaetes vacca* Holzschuh, 1982, female, from Bhutan, Sha Gogona, photo by Junsuke Yamasako. 7. HOLOTYPE of *Ulochaetes fulvus* Pu, 1988, female, from Xizang, Motuo (Medog), photo by Wen-Xuan Bi. 8. male, from Xizang, Cuona, photo by Wen-Xuan Bi. Not to scale.

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