

CARABUS (ARCHAEOCARABUS) SEMENOV, 1898 VS. ARCHAEOCARABUS M'COY, 1849: THE NEED FOR A SUBSTITUTE NAME (COLEOPTERA: CARABIDAE)

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ABSTRACT. According to the International Code of Zoological Nomenclature (ICZN, 1999), *Carabus (Archaeocarabus)* Semenov, 1898 is not correct. Because the subgeneric epithet is illegitimate as being a junior homonym of *Archaeocarabus* M'Coy, 1849. Therefore, the author propose a substitute name for *Carabus (Archaeocarabus)* Semenov, 1898 as *Carabus (Acoptopterus)* Lapouge, 1927. A list is given for all taxa of this subgenus in the present text. Accordingly, new combinations are herein proposed for the taxa currently included in this subgenus. Known distributions of all taxa are also presented hereby with a checklist of known taxa in this subgenus.

KEY WORDS. Nomenclatural changes, homonymy, replacement name, Coleoptera, Carabidae, *Carabus*, *Archaeocarabus*, *Acoptopterus*.

In an effort to reduce the number of homonyms in Carabidae, I found one subgenus name whose had been previously published for other taxon, making it junior homonym. In accordance with the International Code of Zoological Nomenclature, I propose a substitute name for this subgenus.

Family CARABIDAE

Genus CARRABUS Linnaeus, 1758

Subgenus ACOPTOPTERUS Lapouge, 1927 (substitute name)

Archaeocarabus Semenov, 1898. *Horae Soc. ent. Ross.*, 31, 338. (Coleoptera: Adephaga: Caraboidea: Carabidae: Carabinae: Carabini: *Carabus*). Preoccupied by *Archaeocarabus* M'Coy, 1849. *Ann. Mag. nat. Hist.*, (2) 4, 173. (Crustacea: Decapoda: Achelata: Palinuroidea: Palinuridae).

Remarks on nomenclatural changes: The genus name *Archaeocarabus* was initially introduced by M'Coy (1849) for a fossil decapod genus (with the type species *Archaeocarabus bowerbanki* M'Coy, 1849. It is still used as a valid genus name. It has four taxa now according to De Grave et al (2009).

Subsequently, Semenov (1898) described a new subgenus of the genus *Carabus* Linnaeus, 1758 (with the type species *Carabus relictus* Semenov, 1898 from Sichuan, China) under the same generic name in the family Carabidae. *Carabus* Linnaeus, 1758 has 117 subgenera now. It is also still used as a valid genus group name. It has a generic synonym as *Acoptopterus* Lapouge, 1927 of which type species is *Carabus vigilax* Bates, 1890. It has 37 species (including the type species) now. All species are from China. So this subgenus is endemic to China.

Thus, the genus group name *Archaeocarabus* Semenov, 1898 is a junior homonym of the genus *Archaeocarabus* M'Coy, 1849. According to Article 60 of the International Code of Zoological Nomenclature, I propose for the genus group

name *Archaeocarabus* Semenov, 1898 the replacement name *Acoptopterus* Lapouge, 1927.

Summary of nomenclatural changes:

Genus *Carabus* Linnaeus, 1758

Subgenus *Acoptopterus* Lapouge, 1927 **substitute name**

[type sp. *Carabus vigilax* Bates, 1890]

pro *Archaeocarabus* Semenov, 1898 (nec M'Coy, 1849)

[type sp. *Carabus relictus* Semenov, 1898]

Species *Carabus (Acoptopterus) agagemnnon* Breuning, 1943 **comb. nov.**

from *Carabus (Archaeocarabus) agagemnnon* Breuning, 1943

Distribution: China: Sichuan, Emei Shan.

Species *Carabus (Acoptopterus) andreiiianus* Deuve, 2007 **comb. nov.**

from *Carabus (Archaeocarabus) andreiiianus* Deuve, 2007

Distribution: China: N-Sichuan, Pingwu Xian, Baima env.

Species *Carabus (Acoptopterus) anhuinus* Imura, 1996 **comb. nov.**

from *Carabus (Archaeocarabus) anhuinus* Imura, 1996

Distribution: China: SW-Anhui, Dabie Shan, Qianshan Xian (Tianzhu Mts.), Yuexi Xian.

Species *Carabus (Acoptopterus) baimanorum* Deuve, 1999 **comb. nov.**

from *Carabus (Archaeocarabus) baimanorum* Deuve, 1999

Distribution: China: N-Sichuan, Pingwu Xian, Wanbacui.

Species *Carabus (Acoptopterus) battoniensis* Deuve, 1991 **comb. nov.**

from *Carabus (Archaeocarabus) battoniensis* Deuve, 1991

Distribution: China: S-Gansu, Minchow (=Min Xian).

Species *Carabus (Acoptopterus) bornianus* Hauser, 1922 **comb. nov.**

from *Carabus (Archaeocarabus) bornianus* Hauser, 1922

Synonym: *Carabus albrechti* Maindron, 1906 (non Morawitz, 1862)

Distribution: China: Yunnan, Tali-sen-fu (= Dali), Kuh-tsin-fu, Kouang-hsien, Pe-yen-tsin, Yunnan-fu.

Subspecies *Carabus (Acoptopterus) bornianus bornianus* Hauser, 1922 **comb. nov.**

from *Carabus (Archaeocarabus) bornianus bornianus* Hauser, 1922

Distribution: China: Yunnan, Tali-sen-fu (= Dali), Kuh-tsin-fu, Kouang-hsien, Pe-yen-tsin, Yunnan-fu.

Subspecies *Carabus (Acoptopterus) bornianus drumonti* Deuve, 2005 **comb. nov.**

from *Carabus (Archaeocarabus) bornianus drumonti* Deuve, 2005

Distribution: China: C-Yunnan, Kunming env..

Subspecies *Carabus (Acoptopterus) bornianus luxiensis* Deuve, 2005 **comb. nov.**

from *Carabus (Archaeocarabus) bornianus luxiensis* Deuve, 2005

Distribution: China: C-Yunnan, Luxi env..

Species *Carabus (Acoptopterus) camilloi* Cavazzuti & Ratti, 1998 **comb. nov.**

from *Carabus (Archaeocarabus) camilloi* Cavazzuti & Ratti, 1998

Distribution: China: NE-Sichuan, Ping ba Zhen, Taiping (= Wanyuan).

Species *Carabus (Acoptopterus) dongchuanicus* Deuve, 1994 **comb. nov.**

from *Carabus (Archaeocarabus) dongchuanicus* Deuve, 1994

Distribution: China: N-Yunnan, Dongchuan and S-Sichuan.

Subspecies *Carabus (Acoptopterus) dongchuanicus dongchuanicus* Deuve, 1994 **comb. nov.**

from *Carabus (Archaeocarabus) dongchuanicus dongchuanicus* Deuve, 1994

Distribution: China: N-Yunnan, Dongchuan.

Subspecies *Carabus (Acoptopterus) dongchuanicus jiucaipingensis* Deuve, 2005 **comb. nov.**

from *Carabus (Archaeocarabus) dongchuanicus jiucaipingensis* Deuve, 2005

Distribution: China: NW-Guizhou, Liupanshui, Dawan, Jiucaiping Shan Mt..

Subspecies *Carabus (Acoptopterus) dongchuanicus luojicus* Cavazzuti, 1998 **comb. nov.**

from *Carabus (Archaeocarabus) dongchuanicus luojicus* Cavazzuti, 1998

Distribution: China: S-Sichuan, Lunan Shan, Xichang, Luoji.

Subspecies *Carabus (Acoptopterus) dongchuanicus meiguensis* Imura, 1998 **comb. nov.**

from *Carabus (Archaeocarabus) dongchuanicus meiguensis* Imura, 1998

Distribution: China: S-Sichuan, Daliang Shan, Meigu Xian, Dafengding Mt., Meigu env..

- Subspecies** *Carabus (Acoptopterus) dongchuanicus mianshanicus* Cavazzuti, 1997 **comb. nov.**
from *Carabus (Archaeocarabus) dongchuanicus mianshanicus* Cavazzuti, 1997
Distribution: China: S-Sichuan, Mianshan.
- Species** *Carabus (Acoptopterus) dreuxioides* Deuve, 1998 **comb. nov.**
from *Carabus (Archaeocarabus) dreuxioides* Deuve, 1998
Distribution: China: NW-Hunan and CW-Hubei.
- Subspecies** *Carabus (Acoptopterus) dreuxioides dreuxioides* Deuve, 1998 **comb. nov.**
from *Carabus (Archaeocarabus) dreuxioides dreuxioides* Deuve, 1998
Distribution: China: NW-Hunan, Sangzhi.
- Subspecies** *Carabus (Acoptopterus) dreuxioides wushanling* Kleinfeld, 1998 **comb. nov.**
from *Carabus (Archaeocarabus) dreuxioides wushanling* Kleinfeld, 1998
Distribution: China: CW-Hubei, Changyang, Wushanling.
- Species** *Carabus (Acoptopterus) emanuelei* Imura, 1997 **comb. nov.**
from *Carabus (Archaeocarabus) emanuelei* Imura, 1997
Distribution: China: SW-Hunan, S of Suining, Huangshan.
- Subspecies** *Carabus (Acoptopterus) emanuelei emanuelei* Imura, 1997 **comb. nov.**
from *Carabus (Archaeocarabus) emanuelei emanuelei* Imura, 1997
Distribution: China: SW-Hunan, S of Suining, Huangshan.
- Subspecies** *Carabus (Acoptopterus) emanuelei grabneri* Kleinfeld, 2003 **comb. nov.**
from *Carabus (Archaeocarabus) emanuelei grabneri* Kleinfeld, 2003
Distribution: China: C-Hunan, Lengshuijiang, Boyuetong.
- Species** *Carabus (Acoptopterus) fontellus* Deuve, 1997 **comb. nov.**
from *Carabus (Archaeocarabus) fontellus* Deuve, 1997
Distribution: China: Guizhou and Hunan.
- Subspecies** *Carabus (Acoptopterus) fontellus atrepidans* Deuve, 2000 **comb. nov.**
from *Carabus (Archaeocarabus) fontellus atrepidans* Deuve, 2000
Distribution: China: ?NW-Hunan, Dayong env..
- Subspecies** *Carabus (Acoptopterus) fontellus fontellus* Deuve, 1997 **comb. nov.**
from *Carabus (Archaeocarabus) fontellus fontellus* Deuve, 1997
Distribution: China: Guizhou.
- Subspecies** *Carabus (Acoptopterus) fontellus pseudoemeicola* Deuve, 2001 **comb. nov.**
from *Carabus (Archaeocarabus) fontellus pseudoemeicola* Deuve, 2001
Distribution: China: Hunan, Zhangjiajie.
- Subspecies** *Carabus (Acoptopterus) fontellus semifuscus* Cavazzuti & Ratti, 1999 **comb. nov.**
from *Carabus (Archaeocarabus) fontellus semifuscus* Cavazzuti & Ratti, 1999
Distribution: China: NE-Guizhou, between Wanshan and Tongren, Chadian.
- Species** *Carabus (Acoptopterus) gressittianus* Mandl, 1975 **comb. nov.**
from *Carabus (Archaeocarabus) gressittianus* Mandl, 1975
Distribution: China: Fujian, Guandong, Hunan and Jiangxi.
- Subspecies** *Carabus (Acoptopterus) gressittianus bambusicola* Deuve & Tian, 1999 **comb. nov.**
from *Carabus (Archaeocarabus) gressittianus bambusicola* Deuve & Tian, 1999
Distribution: China: NC-Guandong, Ruyuan Xian, Nanling reserve, Shikengkong Mt..
- Subspecies** *Carabus (Acoptopterus) gressittianus caementibos* Imura, 2009 **comb. nov.**
from *Carabus (Archaeocarabus) gressittianus caementibos* Imura, 2009
Distribution: China: Fujian, Dehua Xian.
- Subspecies** *Carabus (Acoptopterus) gressittianus daanensis* Deuve, 1999 **comb. nov.**
from *Carabus (Archaeocarabus) gressittianus daanensis* Deuve, 1999
Distribution: China: NW-Fujian, Wuyi Shan.
- Subspecies** *Carabus (Acoptopterus) gressittianus daiyunshan* Kleinfeld, 1998 **comb. nov.**
from *Carabus (Archaeocarabus) gressittianus daiyunshan* Kleinfeld, 1998
Distribution: China: Fujian, Daiyun Shan, Dehua.
- Subspecies** *Carabus (Acoptopterus) gressittianus fuscomarginatus* Kleinfeld, 1997 **comb. nov.**
from *Carabus (Archaeocarabus) gressittianus fuscomarginatus* Kleinfeld, 1997
Distribution: China: C-Fujian, SE of Yongan, Tianbaoyan Mt..
- Subspecies** *Carabus (Acoptopterus) gressittianus gressittianus* Mandl, 1975 **comb. nov.**
from *Carabus (Archaeocarabus) gressittianus gressittianus* Mandl, 1975
Distribution: China: Jiangxi, Guandong and Fujian: Hong San Se (= Hong Shan) and Yongding.
- Subspecies** *Carabus (Acoptopterus) gressittianus shanminicus* Deuve, 1999 **comb. nov.**
from *Carabus (Archaeocarabus) gressittianus shanminicus* Deuve, 1999
Distribution: China: Fujian, Shanmin.
- Species** *Carabus (Acoptopterus) jinnanicus* Deuve & Tian, 2006 **comb. nov.**
from *Carabus (Archaeocarabus) jinnanicus* Deuve & Tian, 2006
Distribution: China: S-Shangxi, between Jiang Xian and Yangcheng, Lishan Mts., Shunawangping.

- Species** *Carabus (Acoptopterus) koidei* Imura, 1996 **comb. nov.**
 from *Carabus (Archaeocarabus) koidei* Imura, 1996
 Distribution: China: SW-Sichuan, Muli.
- Species** *Carabus (Acoptopterus) kucerai* Deuve, 1997 **comb. nov.**
 from *Carabus (Archaeocarabus) kucerai* Deuve, 1997
 Distribution: China: S-Shaanxi and E-Sichuan.
- Subspecies** *Carabus (Acoptopterus) kucerai kucerai* Deuve, 1997 **comb. nov.**
 from *Carabus (Archaeocarabus) kucerai kucerai* Deuve, 1997
 Distribution: China: S-Shaanxi, Lüeyang.
- Subspecies** *Carabus (Acoptopterus) kucerai puchneri* Kleinfeld, 2007 **comb. nov.**
 from *Carabus (Archaeocarabus) kucerai puchneri* Kleinfeld, 2007
 Distribution: China: E-Sichuan, road between Pingwu and Nanping, Mupi village env..
- Subspecies** *Carabus (Acoptopterus) kucerai wuangxianus* Kleinfeld, 1998 **comb. nov.**
 from *Carabus (Archaeocarabus) kucerai wuangxianus* Kleinfeld, 1998
 Distribution: China: E-Sichuan, W-Wuangxian, Zhuitoushi Mt..
- Species** *Carabus (Acoptopterus) kweitschauensis* Mandl, 1975 **comb. nov.**
 from *Carabus (Archaeocarabus) kweitschauensis* Mandl, 1975
 Distribution: China: Guizhou, Shih-men-kan (= Heituhe).
- Species** *Carabus (Acoptopterus) latipennis* Breuning, 1932 **comb. nov.**
 from *Carabus (Archaeocarabus) latipennis* Breuning, 1932
 Distribution: China: N-Sichuan.
- Subspecies** *Carabus (Acoptopterus) latipennis latipennis* Breuning, 1932 **comb. nov.**
 from *Carabus (Archaeocarabus) latipennis latipennis* Breuning, 1932
 Distribution: China: Sichuan.
- Subspecies** *Carabus (Acoptopterus) latipennis shansutiaensis* Lassalle & Remond, 1998 **comb. nov.**
 from *Carabus (Archaeocarabus) latipennis shansutiaensis* Lassalle & Remond, 1998
 Distribution: China: N-Sichuan, Shansutia.
- Species** *Carabus (Acoptopterus) ludingensis* Deuve & Taglianti, 1992 **comb. nov.**
 from *Carabus (Archaeocarabus) ludingensis* Deuve & Taglianti, 1992
 Distribution: China: W-Sichuan, Luding env..
- Subspecies** *Carabus (Acoptopterus) ludingensis gonggaiensis* Deuve, 2002 **comb. nov.**
 from *Carabus (Archaeocarabus) ludingensis gonggaiensis* Deuve, 2002
 Distribution: China: Sichuan, Gongga Shan.
- Subspecies** *Carabus (Acoptopterus) ludingensis ludingensis* Deuve & Taglianti, 1992 **comb. nov.**
 from *Carabus (Archaeocarabus) ludingensis ludingensis* Deuve & Taglianti, 1992
 Distribution: China: W-Sichuan, Luding Xian, Xin Shin, Siao Lou.
- Species** *Carabus (Acoptopterus) maowenensis* Deuve, 2001 **comb. nov.**
 from *Carabus (Archaeocarabus) maowenensis* Deuve, 2001
 Distribution: China: C-Sichuan, Maoxian (= Maowen).
- Species** *Carabus (Acoptopterus) mianningensis* Kleinfeld, 2000 **comb. nov.**
 from *Carabus (Archaeocarabus) mianningensis* Kleinfeld, 2000
 Distribution: China: S-Sichuan, Mianning.
- Species** *Carabus (Acoptopterus) mirandus* Cavazzuti & Rapuzzi, 2005 **comb. nov.**
 from *Carabus (Archaeocarabus) mirandus* Cavazzuti & Rapuzzi, 2005
 Distribution: China: S-Sichuan, Jinyang.
- Species** *Carabus (Acoptopterus) morphocaraboides* Deuve, 1989 **comb. nov.**
 from *Carabus (Archaeocarabus) morphocaraboides* Deuve, 1989
 Distribution: China: N-Yunnan and S-Sichuan.
- Subspecies** *Carabus (Acoptopterus) morphocaraboides altiguizhouicus* Deuve & Li, 2005 **comb. nov.**
 from *Carabus (Archaeocarabus) morphocaraboides altiguizhouicus* Deuve & Li, 2005
 Distribution: China: NW-Guizhou, Liupanshui, Dawan, Jiucaiping Shan Mt..
- Subspecies** *Carabus (Acoptopterus) morphocaraboides dongchuan* Cavazzuti, 2001 **comb. nov.**
 from *Carabus (Archaeocarabus) morphocaraboides dongchuan* Cavazzuti, 2001
 Distribution: China: NE-Yunnan, Dongchuan, Ta Hai Zhi Shan.
- Subspecies** *Carabus (Acoptopterus) morphocaraboides morphocaraboides* Deuve, 1989 **comb. nov.**
 from *Carabus (Archaeocarabus) morphocaraboides morphocaraboides* Deuve, 1989
 Distribution: China: NE-Yunnan, Dongchuan env..

- Subspecies** *Carabus (Acoptopterus) morphocaraboides pani* Deuve & Tian, 2001 **comb. nov.**
from *Carabus (Archaeocarabus) morphocaraboides pani* Deuve & Tian, 2001
Distribution: China: N-Yunnan, Luqian Xian, Jiaozhi Shan.
- Subspecies** *Carabus (Acoptopterus) morphocaraboides pigmentatus* Cavazzuti, 1998 **comb. nov.**
from *Carabus (Archaeocarabus) morphocaraboides pigmentatus* Cavazzuti, 1998
Distribution: China: N-Yunnan, Mts. between Dayao and Yangpengzi.
- Subspecies** *Carabus (Acoptopterus) morphocaraboides yao* Imura, 1999 **comb. nov.**
from *Carabus (Archaeocarabus) morphocaraboides yao* Imura, 1999
Distribution: China: NE-Yunnan, Qiaojia Xian, Yao Shan.
- Subspecies** *Carabus (Acoptopterus) morphocaraboides zhaojueanus* Imura, 1999 **comb. nov.**
from *Carabus (Archaeocarabus) morphocaraboides zhaojueanus* Imura, 1999
Distribution: China: S-Sichuan, Zhaojue Xian, between Xichang and Meigu.
- Species** *Carabus (Acoptopterus) nanosomus* Hauser, 1931 **comb. nov.**
from *Carabus (Archaeocarabus) nanosomus* Hauser, 1931
Distribution: China: Guangxi, Guizhou, Hubei and Sichuan.
- Subspecies** *Carabus (Acoptopterus) nanosomus cordithoracicus* Deuve, 1989 **comb. nov.**
from *Carabus (Archaeocarabus) nanosomus cordithoracicus* Deuve, 1989
Distribution: China: NE-Guangxi, N of Guilin, Longsheng Xian, Huaping, Qianjiadong.
- Subspecies** *Carabus (Acoptopterus) nanosomus maotaiophilus* Deuve, 1996 **comb. nov.**
from *Carabus (Archaeocarabus) nanosomus maotaiophilus* Deuve, 1996
Distribution: China: SE-Guizhou, Leigong Shan near Kaili.
- Subspecies** *Carabus (Acoptopterus) nanosomus nanosomus* Hauser, 1931 **comb. nov.**
from *Carabus (Archaeocarabus) nanosomus nanosomus* Hauser, 1931
Distribution: China: SE-Sichuan, Jinfo Shan massif (Kinfu Shan, Sung-Kanho river).
- Subspecies** *Carabus (Acoptopterus) nanosomus wufengensis* Kleinfeld, 1998 **comb. nov.**
from *Carabus (Archaeocarabus) nanosomus wufengensis* Kleinfeld, 1998
Distribution: China: SW-Hubei, Yizhuxiang, Wufeng.
- Species** *Carabus (Acoptopterus) nestor* Breuning, 1934 **comb. nov.**
from *Carabus (Archaeocarabus) nestor* Breuning, 1934
Distribution: China: Guizhou, Hubei and Sichuan.
- Subspecies** *Carabus (Acoptopterus) nestor barbulator* Cavazzuti & Ratti, 1999 **comb. nov.**
from *Carabus (Archaeocarabus) nestor barbulator* Cavazzuti & Ratti, 1999
Distribution: China: S-Guizhou, Yunwu Mt..
- Subspecies** *Carabus (Acoptopterus) nestor emeicola* Deuve & Imura, 1992 **comb. nov.**
from *Carabus (Archaeocarabus) nestor emeicola* Deuve & Imura, 1992
Distribution: China: C-Sichuan, Emei Shan.
- Subspecies** *Carabus (Acoptopterus) nestor gongtong* (Imura, 2004) **comb. nov.**
from *Carabus (Archaeocarabus) nestor gongtong* (Imura, 2004)
Distribution: China: SC-Sichuan, Wawu Shan, between Gufopeng and Jonhuqiao.
- Subspecies** *Carabus (Acoptopterus) nestor loui* Deuve & Mourzine, 2004 **comb. nov.**
from *Carabus (Archaeocarabus) nestor loui* Deuve & Mourzine, 2004
Distribution: China: C-Sichuan, NW of Chengdu, SW of Guan kou, Qingcheng Houshan.
- Subspecies** *Carabus (Acoptopterus) nestor nestor* Breuning, 1934 **comb. nov.**
from *Carabus (Archaeocarabus) nestor nestor* Breuning, 1934
Distribution: China: SE-Sichuan, Jinfo Shan.
- Subspecies** *Carabus (Acoptopterus) nestor xianfengicus* Deuve & Li, 2000 **comb. nov.**
from *Carabus (Archaeocarabus) nestor xianfengicus* Deuve & Li, 2000
Distribution: China: SW-Hubei, Xianfeng Xian, Laoyan, Hefeng Xian.
- Species** *Carabus (Acoptopterus) oblongior* Deuve, 1992 **comb. nov.**
from *Carabus (Archaeocarabus) oblongior* Deuve, 1992
Distribution: China: N-Yunnan.
- Subspecies** *Carabus (Acoptopterus) oblongior hei* Cavazzuti, 1996 **comb. nov.**
from *Carabus (Archaeocarabus) oblongior hei* Cavazzuti, 1996
Distribution: China: SW-Sichuan annd NW-Yunnan, Yongning env., W bank of Lugu lake.
- Subspecies** *Carabus (Acoptopterus) oblongior oblongior* Deuve, 1992 **comb. nov.**
from *Carabus (Archaeocarabus) oblongior oblongior* Deuve, 1992
Distribution: China: N-Yunnan, Lijiang, Ganhaizi pass.
- Subspecies** *Carabus (Acoptopterus) oblongior yunlingicus* Deuve, 1994 **comb. nov.**
from *Carabus (Archaeocarabus) oblongior yunlingicus* Deuve, 1994
Distribution: China: NW-Yunnan, between Zhongdian and Weixi, Yunling Shan Mt..
- Species** *Carabus (Acoptopterus) ohomopteroides* Deuve & Tian, 2004 **comb. nov.**
from *Carabus (Archaeocarabus) ohomopteroides* Deuve & Tian, 2004
Distribution: China: W-Yunnan, Weixi Xian, Samage.

- Species** *Carabus (Acoptopterus) paris* Breuning, 1932 **comb. nov.**
 from *Carabus (Archaeocarabus) paris* Breuning, 1932
 Synonym: *Carabus modestus* Oberthür, 1884 (non Fabricius, 1801)
 Distribution: China: N-Sichuan, Mts. NW of Ya'an, Wolong env., W of Chengdu, Xiling Shan.
- Species** *Carabus (Acoptopterus) pseudolatipennis* Deuve, 1991 **comb. nov.**
 from *Carabus (Archaeocarabus) pseudolatipennis* Deuve, 1991
 Distribution: China: Gansu, Hubei, Shaanxi and Sichuan.
- Subspecies** *Carabus (Acoptopterus) pseudolatipennis bashanensis* Imura, 1995 **comb. nov.**
 from *Carabus (Archaeocarabus) pseudolatipennis bashanensis* Imura, 1995
 Distribution: China: NE-Sichuan, Dabashan Mts., Chengkou Xian, Bashan env..
- Subspecies** *Carabus (Acoptopterus) pseudolatipennis gracilescens* Deuve, 1999 **comb. nov.**
 from *Carabus (Archaeocarabus) pseudolatipennis gracilescens* Deuve, 1999
 Distribution: China: N-Sichuan, Pingwu Xian.
- Subspecies** *Carabus (Acoptopterus) pseudolatipennis huayangzhen* Cavazzuti, 1999 **comb. nov.**
 from *Carabus (Archaeocarabus) pseudolatipennis huayangzhen* Cavazzuti, 1999
 Distribution: China: S-Shaanxi, 80 km N of Yang Xian, Huayang Zhen.
- Subspecies** *Carabus (Acoptopterus) pseudolatipennis lantianensis* Cavazzuti, 1999 **comb. nov.**
 from *Carabus (Archaeocarabus) pseudolatipennis lantianensis* Cavazzuti, 1999
 Distribution: China: SE-Shaanxi, pass between Lantian and Shang Xian.
- Subspecies** *Carabus (Acoptopterus) pseudolatipennis nagahatai* Imura & Okomoto, 2003 **comb. nov.**
 from *Carabus (Archaeocarabus) pseudolatipennis nagahatai* Imura & Okomoto, 2003
 Distribution: China: E-Sichuan, Micangshan Mts., Nanjiang Xian.
- Subspecies** *Carabus (Acoptopterus) pseudolatipennis nanpingensis* Deuve, 1992 **comb. nov.**
 from *Carabus (Archaeocarabus) pseudolatipennis nanpingensis* Deuve, 1992
 Distribution: N-Sichuan, Nanping Xian.
- Subspecies** *Carabus (Acoptopterus) pseudolatipennis pseudolatipennis* Deuve, 1991 **comb. nov.**
 from *Carabus (Archaeocarabus) pseudolatipennis pseudolatipennis* Deuve, 1991
 Distribution: China: S-Shaanxi, Long Xian and S-Gansu.
- Subspecies** *Carabus (Acoptopterus) pseudolatipennis qinlingicus* Deuve, 1998 **comb. nov.**
 from *Carabus (Archaeocarabus) pseudolatipennis qinlingicus* Deuve, 1998
 Distribution: China: S-Shaanxi, Qinling Shan Mts., 15 km N of Xunyuangba.
- Subspecies** *Carabus (Acoptopterus) pseudolatipennis shennongjianus* Imura, 1996 **comb. nov.**
 from *Carabus (Archaeocarabus) pseudolatipennis shennongjianus* Imura, 1996
 Distribution: China: W-Hubei, Shennongjia env. (Yanzi pass).
- Subspecies** *Carabus (Acoptopterus) pseudolatipennis wenxianensis* Deuve, 1992 **comb. nov.**
 from *Carabus (Archaeocarabus) pseudolatipennis wenxianensis* Deuve, 1992
 Distribution: China: S-Gansu, Wenxian env..
- Subspecies** *Carabus (Acoptopterus) pseudolatipennis yangxianensis* Deuve, 1999 **comb. nov.**
 from *Carabus (Archaeocarabus) pseudolatipennis yangxianensis* Deuve, 1999
 Distribution: China: S-Shaanxi, Yang Xian.
- Subspecies** *Carabus (Acoptopterus) pseudolatipennis yingpanjienus* Cavazzuti, 1999 **comb. nov.**
 from *Carabus (Archaeocarabus) pseudolatipennis yingpanjienus* Cavazzuti, 1999
 Distribution: China: S-Shaanxi, between Shagoujie and Yingpanjie.
- Species** *Carabus (Acoptopterus) relictus* Semenov, 1898 **comb. nov.**
 from *Carabus (Archaeocarabus) relictus* Semenov, 1898
 Distribution: China: C-Sichuan, between Sing-pu-guan and Tan-chua (= Tonghua) and Wenchuan.
- Species** *Carabus (Acoptopterus) shamaevi* Imura, 1996 **comb. nov.**
 from *Carabus (Archaeocarabus) shamaevi* Imura, 1996
 Distribution: China: C-Sichuan, near Wolong and W of Chengdu, Xiling Shan.
- Species** *Carabus (Acoptopterus) tianbaoshan* Kleinfeld, 1998 **comb. nov.**
 from *Carabus (Archaeocarabus) tianbaoshan* Kleinfeld, 1998
 Distribution: China: C-Fujian, SE of Yong'an, Tianbaoyan Mt..
- Species** *Carabus (Acoptopterus) tieguanzi* Imura, 1990 **comb. nov.**
 from *Carabus (Archaeocarabus) tieguanzi* Imura, 1990
 Distribution: China: C-Sichuan, Emei Shan.
- Species** *Carabus (Acoptopterus) vigil* Semenov, 1898 **comb. nov.**
 from *Carabus (Archaeocarabus) vigil* Semenov, 1898
 Synonym: *Carabus striatus* Semenov, 1887 (non DeGeer, 1781; Chaudoir, 1869; Baillon, 1878; Kraatz, 1879)
 Distribution: China: Gansu, Hubei, Shaanxi, Sichuan.

- Subspecies** *Carabus (Acoptopterus) vigil claricollis* Cavazzuti & Ratti, 1998 **comb. nov.**
from *Carabus (Archaeocarabus) vigil claricollis* Cavazzuti & Ratti, 1998
Distribution: China: N-Jiangxi, Lu Shan.
- Subspecies** *Carabus (Acoptopterus) vigil cordulatus* Cavazzuti, 1999 **comb. nov.**
from *Carabus (Archaeocarabus) vigil cordulatus* Cavazzuti, 1999
Distribution: China: S-Shaanxi, 80 km N of Yang Xian, Huayang Zhen.
- Subspecies** *Carabus (Acoptopterus) vigil dabashanus* Imura, 1995 **comb. nov.**
from *Carabus (Archaeocarabus) vigil dabashanus* Imura, 1995
Distribution: China: NE-Sichuan, Dabashan Mts., Chengkou Xian, Bashan env..
- Subspecies** *Carabus (Acoptopterus) vigil funiuensis* (Imura, 2005) **comb. nov.**
from *Carabus (Archaeocarabus) vigil funiuensis* (Imura, 2005)
Distribution: China: W-Henan, Neixiang Xian, Funiu Shan, Baotianman.
- Subspecies** *Carabus (Acoptopterus) vigil giacomazzo* Deuve, 1992 **comb. nov.**
from *Carabus (Archaeocarabus) vigil giacomazzo* Deuve, 1992
Distribution: China: W-Sichuan, 180 km SW of Chengdu, Xin Gou.
- Subspecies** *Carabus (Acoptopterus) vigil guangwushanus* Imura & Su, 2000 **comb. nov.**
from *Carabus (Archaeocarabus) vigil guangwushanus* Imura & Su, 2000
Distribution: China: NE-Sichuan, Micang Shan, Nanjiang, pass between Shanliangqu and Taoyuan, Guangwu Shan Mt..
- Subspecies** *Carabus (Acoptopterus) vigil kangensis* Deuve & Li, 2003 **comb. nov.**
from *Carabus (Archaeocarabus) vigil kangensis* Deuve & Li, 2003
Distribution: China: SE-Gansu, Kang Xian (= Cheng Xian), Yangtian, Wucheng-xi.
- Subspecies** *Carabus (Acoptopterus) vigil nigrominimus* Deuve & Mourzine, 1997 **comb. nov.**
from *Carabus (Archaeocarabus) vigil nigrominimus* Deuve & Mourzine, 1997
Distribution: China: S-Gansu, between Wenxian and Wudu, Toqizi.
- Subspecies** *Carabus (Acoptopterus) vigil ohshimaorum* Deuve, 1991 **comb. nov.**
from *Carabus (Archaeocarabus) vigil ohshimaorum* Deuve, 1991
Distribution: China: W-Hubei, Shennongjia.
- Subspecies** *Carabus (Acoptopterus) vigil pseudoparis* Deuve, 1992 **comb. nov.**
from *Carabus (Archaeocarabus) vigil pseudoparis* Deuve, 1992
Distribution: China: S-Shaanxi, Long Xian, Taibai Shan Massif.
- Subspecies** *Carabus (Acoptopterus) vigil pseudotosanus* Deuve & Mourzine, 1997 **comb. nov.**
from *Carabus (Archaeocarabus) vigil pseudotosanus* Deuve & Mourzine, 1997
Distribution: China: S-Gansu, E of Wudu, Wangziguan.
- Subspecies** *Carabus (Acoptopterus) vigil pyrochromus* Deuve, 1997 **comb. nov.**
from *Carabus (Archaeocarabus) vigil pyrochromus* Deuve, 1997
Distribution: China: S-Gansu, Tianshui env..
- Subspecies** *Carabus (Acoptopterus) vigil quercinus* Cavazzuti, 1999 **comb. nov.**
from *Carabus (Archaeocarabus) vigil quercinus* Cavazzuti, 1999
Distribution: China: C-Shaanxi, Tongchuan, Shimen Shan, S-slope.
- Subspecies** *Carabus (Acoptopterus) vigil vigil* Semenov, 1898 **comb. nov.**
from *Carabus (Archaeocarabus) vigil vigil* Semenov, 1898
Distribution: China: S-Gansu, Minchow (= Min Xian).
- Subspecies** *Carabus (Acoptopterus) vigil xingshanensis* Imura, 1996 **comb. nov.**
from *Carabus (Archaeocarabus) vigil xingshanensis* Imura, 1996
Distribution: China: CW-Hubei, W of Xingshan, ?W-Henan, Lushi env..
- Subspecies** *Carabus (Acoptopterus) vigil xunyangbaensis* Deuve, 2000 **comb. nov.**
from *Carabus (Archaeocarabus) vigil xunyangbaensis* Deuve, 2000
Distribution: China: S-Shaanxi, Qinling Shan, 6 km E of Xunyangba.
- Subspecies** *Carabus (Acoptopterus) vigil zaohongipennis* Imura & Okomoto, 2003 **comb. nov.**
from *Carabus (Archaeocarabus) vigil zaohongipennis* Imura & Okomoto, 2003
Distribution: China: E-Sichuan, Micangshan Mts., Nanjiang Xian, above Yingshuiba.
- Subspecies** *Carabus (Acoptopterus) vigil zhugguicus* Deuve & Kabak, 2008 **comb. nov.**
from *Carabus (Archaeocarabus) vigil zhugguicus* Deuve & Kabak, 2008
Distribution: China: Gansu, Zhudqu.
- Species** *Carabus (Acoptopterus) vigilax* Bates, 1890
from *Carabus (Archaeocarabus) vigilax* Bates, 1890
Distribution: China: C-Sichuan.
- Subspecies** *Carabus (Acoptopterus) vigilax vigilax* Bates, 1890
from *Carabus (Archaeocarabus) vigilax vigilax* Bates, 1890
Distribution: China: C-Sichuan, Chia-ting-fu (= Leshan) and Wa-shan (= Mts. between Fulin and Ya'an), Emei Shan.
- Subspecies** *Carabus (Acoptopterus) vigilax wassulandensis* Deuve, 2000 **comb. nov.**
from *Carabus (Archaeocarabus) vigilax wassulandensis* Deuve, 2000
Distribution: China: C-Sichuan, Sanjiangkou, Sanjiang, Wassuland (= Yingxiuwan).

- Species** *Carabus (Acoptopterus) wutaishanicus* Muller, 2000 **comb. nov.**
from *Carabus (Archaeocarabus) wutaishanicus* Muller, 2000
Distribution: China: NE-Shangxi, Wutai Shan.
- Species** *Carabus (Acoptopterus) xupuensis* Kleinfeld, 1998 **comb. nov.**
from *Carabus (Archaeocarabus) xupuensis* Kleinfeld, 1998
Distribution: China: W-Hunan, S of Xupu, Liangfengjie.
- Species** *Carabus (Acoptopterus) yunnanus* Fairmaire, 1886 **comb. nov.**
from *Carabus (Archaeocarabus) yunnanus* Fairmaire, 1886
Synonym: *Carabus cecileae* Beheim & Breuning, 1943 [China: Yunnan, Pe-yen-tsin (Yanfeng near Dayao, between Dali and Kunming)]
Distribution: China: Sichuan and Yunnan.
- Subspecies** *Carabus (Acoptopterus) yunnanus enneadraconis* (Imura, Zhou & Su, 2004) **comb. nov.**
from *Carabus (Archaeocarabus) yunnanus enneadraconis* (Imura, Zhou & Su, 2004)
Distribution: China: SW-Sichuan, Jiulong Xian, S-part.
- Subspecies** *Carabus (Acoptopterus) yunnanus guerryanus* Breuning, 1961 **comb. nov.**
from *Carabus (Archaeocarabus) yunnanus guerryanus* Breuning, 1961
Distribution: China: Yunnan, Hang-kkia-pin (= between Dali and Lijiang, N of Jizu Shan).
- Subspecies** *Carabus (Acoptopterus) yunnanus moffanggouensis* Deuve, 2006 **comb. nov.**
from *Carabus (Archaeocarabus) yunnanus moffanggouensis* Deuve, 2006
Distribution: China: Sichuan, Jinping Shan.
- Subspecies** *Carabus (Acoptopterus) yunnanus niobe* Kleinfeld, 2000 **comb. nov.**
from *Carabus (Archaeocarabus) yunnanus niobe* Kleinfeld, 2000
Distribution: China: W-Yunnan, Xuebang Shan, Lujing river, Lanping.
- Subspecies** *Carabus (Acoptopterus) yunnanus pseudoyunnanus* Deuve, 1994 **comb. nov.**
from *Carabus (Archaeocarabus) yunnanus pseudoyunnanus* Deuve, 1994
Distribution: China: Yunnan, Ta-pin-tze (= between Dali and Lijiang, N of Jizu Shan), Lijiang env..
- Subspecies** *Carabus (Acoptopterus) yunnanus yanmenicus* Deuve, 2005 **comb. nov.**
from *Carabus (Archaeocarabus) yunnanus yanmenicus* Deuve, 2005
Distribution: China: NW-Yunnan, Yanmen.
- Subspecies** *Carabus (Acoptopterus) yunnanus yanyuanicus* Cavazzuti, 1996 **comb. nov.**
from *Carabus (Archaeocarabus) yunnanus yanyuanicus* Cavazzuti, 1996
Distribution: China: SW-Sichuan, Yanyuan.
- Subspecies** *Carabus (Acoptopterus) yunnanus yunnanus* Fairmaire, 1886 **comb. nov.**
from *Carabus (Archaeocarabus) yunnanus yunnanus* Fairmaire, 1886
Distribution: China: Yunnan, Dali env. and Lijiang env., Ganhaizi pass, Yulongxue Shan, Xuebang Shan.
- Subspecies** *Carabus (Acoptopterus) yunnanus zhiericus* Deuve, 2006 **comb. nov.**
from *Carabus (Archaeocarabus) yunnanus zhiericus* Deuve, 2006
Distribution: China: Sichuan, Zhi'er.

LITERATURE CITED

- De Grave, S., Pentcheff, N. D., Ahyong, S. T., Chan, T-Y., Crandall, K. A., Dworschak, P. C., Felder, D. L., Feldmann, R. M., Fransen, C. H. J. M., Goulding, L. Y. D., Lemaitre, R., Low, M. E. Y., Martin, J. W. Ng, P. K. L., Schweitzer, C. E., Tan, S. H., Tshudy, D. & Wetzler R. 2009. A classification of living and fossil genera of decapod crustaceans. Raffles Bulletin of Zoology, Supplement No. 21: 1–109.
- ICZN. 1999. International Code of Zoological Nomenclature. Fourth Edition. The International Trust for Zoological Nomenclature, London. 306 pp.
- M'Coy, F. 1849. On the classification of some British fossil Crustacea with notices of new forms in the University Collection at Cambridge. Annals and Magazine of Natural History, series 2, 4: 161–179.
- Semenov, A. 1898. Symbolae ad cognitionem generis *Carabus* (L). A. Mor. II. Formarum novarum decas III et IV. Horae Soc. Ent. Ross., 31: 315–541.