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A supplement to the checklist of Chinese blackflies (Diptera: Simuliidae)

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Abstract

This work provides a summary of all simuliid species described or reported from China over the past 10 years. Text references pertaining to each additional species are accompanied by statements of the type localities, sexes and life stages described.

Keywords: *Checklist, China, Simuliidae, supplement*

Introduction

It has now been over 10 years since the appearance of the checklists of Chinese Simuliidae published by Crosskey et al. (1996) and An (1996), works which together listed a total of 164 species of Simuliidae known from China up to December 1995. Since then, 82 newly described and newly recorded species have been added to this number, and it is now desirable to provide an updated inventory for the Chinese simuliid fauna. The following catalogue updates the list on the basis of literature known to have been published up to July 2006. It adopts a similar taxonomic arrangement to that of Crosskey et al. (1996) but differs in providing more detailed information on localities, by giving the type depositories and by noting the known life history stages (L, larva; P, pupa).

Type depositories

BMH, Bishop Museum, Hawaii, USA; CAET, Chengdu Anti-Epidemic Team of the PLA, Chengdu, Sichuan; CAS, Chongqing Sanitary and Anti-Epidemic Station, Chongqing; GMU, Guiyang Medical University, Guiyang; IME, Institute of Microbiology and Epidemiology Beijing; XSAS, Xinbin Sanitary and Anti-Epidemic Station of Liaoning, Xinbin.

The catalogue

Family SIMULIIDAE Newman

Subfamily SIMULIIDAE Newman

Tribe PROSIMULIINI Enderlein

Genus *Twinnia* Stone and Jamnback (new record)

changbaiensis Sun, 1994

Sun 1994, p 68 (♀, ♂, P, L).

Type locality: Xinbin, Liaoning (XSAS).

Crosskey and Howard 1997, p 25; Chen and An 2003, p 76 (♀, P, L).

China (Liaoning).

Tribe SIMULIINI Newman

Genus *Simulium* Latreille

Subgenus *Eusimulium* Roubaud

arenicola Liu, Gong, Zhang, Luo and An, 2003

Liu et al. 2003, p 59 (♀).

Type locality: Germu, Qinghai Province (IME).

China (Qinghai).

taishanense Xue and An, 2001

Xue and An 2001, p 46 (♀, ♂, P, L).

Type locality: Taishan, Shandong (IME).

Chen and An 2003, p 101 (♀, ♂, P, L).

China (Shandong).

weiningense Chen and Zhang, 1997

Chen and Zhang 1997b, p 301 (♀, ♂, P, L).

Type locality: Weining, Guizhou (GMC).

Zhang et al. 1999, p 232; Chen and An 2003, p 103 (♀, ♂, P, L).

China (Guizhou).

Subgenus *Gomphostilbia* Enderlein

altayense Cai, An and Li, 2005

Cai et al. 2005, p 177 (♀).

Type locality: Altay Xinjiang (IME).

China (Xinjiang).

asakoe Takaoka and Davies, 1995

Takaoka and Davies 1995, p 55 (♀, ♂, P, L).

Type locality: West Malaysia.

Takaoka, Davies and Dudgeon 1995, p 192 (♀, ♂).

China (Hong Kong).

bannaense Chen and Zhang, 2003

Chen and Zhang 2003, p 542 (♀, ♂, P, L).

Type locality: Banna, Yunnan (GMU).
China (Xishuangbanna, Yunnan).

brivetruncum Chen and Chen, 2000
Chen and Chen 2000, p 129 (♀, ♂, P, L).
Type locality: Jianfengling, Hainan, China (GMU).
Chen and An 2003, p 110 (♀, ♂, P, L).
China (Hainan).

curvasrylum Chen and Zhang, 2001
Chen and Zhang 2001, p 361 (♀, ♂, P, L).
Type locality: Jianfengling, Hainan (GMU).
Chen and An 2003, p 114 (♀, ♂, P, L).
China (Hainan).

dudgeoni Takaoka and Davies, 1995
Takaoka and Davies 1995, p 194 (♀, ♂).
Type locality: Hong Kong.
Chen and An 2003, p 115 (♀, ♂).
China (Hong Kong).

fanjingshanense Chen, Zhang and Wen, 2000
Chen et al. 2000, p 21 (♀, ♂, P, L).
Type locality: Fanjingshan, Guizhou (GMU).
Chen and An 2003, p 117 (♀, ♂, P, L).
China (Guizhou).

guizhouense Chen, Zhang and Yang, 2003
Chen et al. 2003a, p 47 (♂, P).
Type locality: Leigongshan, Guizhou (GMU).
China (Guizhou).

hunanense Zhang and Chen, 2004
Zhang and Chen 2004, p 374 (♀, ♂, P, L).
Type locality: Jinbian stream, Zhangjiajie, Hunan (GMU).
China (Hunan).

jinbinense Zhang and Chen, 2004
Zhang and Chen 2004, p 372 (♀, P, L).
Type locality: Jinbian stream, Zhangjiajie, Hunan (GMU).
China (Hunan).

laoshanstum Ren, An and Kang, 1998
Ren et al. 1998a, p 32 (♀, ♂, P, L).
Type locality: Qingdao, Laoshan, Shandong (IME).
Chen and An 2003, p 123 (♀, ♂, P, L).
China (Shandong).

longitruncum Zhang and Chen, 2003 [preoccupied name]
Zhang and Chen 2003, p 355 (♀, P).

Type locality: Jianfengling, Hainan (IME).
China (Hainan).

meadowi Maha, Ma and An, 2003

Maha et al. 2003, p 115 (♀, ♂).

Type locality: Tashikulgan, Xinjiang autonomous region (IME).
China (Xinjiang).

mengi Chen, Zhang and Wen, 2000

Chen et al. 2000, p 24 (♀, ♂, P, L).

Type locality: Fanjingshan, Guizhou (GMU).

Chen and An 2003, p 125 (♀, ♂, P, L).

China (Guizhou).

miaolingense Wen and Chen, 2000

Wen and Chen 2000, p 112 (♀, ♂, P, L).

Type locality: Leigongshan, Guizhou (GMU).

Chen and An 2003, p 129 (♀, ♂, P, L).

China (Guizhou).

nigrofemorale Chen and Zhang, 2001

Chen and Zhang 2001, p 364 (♀, ♂, P, L).

Type locality: Jianfengling, Hainan (GMU).

Chen and An 2003, p 130 (♀, ♂, P, L).

China (Hainan).

simianshanense Wang, Li and Sun, 1996

Wang et al. 1996, p 96 (♂, P).

Type locality: Simianshan, Chongqing (CAS).

Chen and An 2003, p 133 (♂, P).

China (Chongqing).

tashikulganense Maha, Ma and An, 2003

Maha et al. 2003, p 113 (♀, ♂).

Type locality: Tashikulgan, Xinjiang autonomous region (IME).

China (Xinjiang).

tumum Chen and Zhang, 2001

Chen and Zhang 2001, p 366 (♂, P, L).

Type locality: Wuzhishan, Hainan (GMU).

Chen and An 2003, p 137 (♂, P, L).

China (Hainan).

yunnanense Chen and Zhang, 2004

Chen and Zhang 2004, p 87 (♀, ♂, P, L).

Type locality: Mengla, Yunnan (GMU).

China (Yunnan).

Subgenus *Montisimulium* Rubtsov, 1974*hailuogouense* Chen, Huang and Zhang, 2005

Chen et al. 2005, p 175 (♀, P, L).

Type locality: Hailuogou, Luding, Sichuan (GMU).

China (Sichuan).

jiajinshanense Zhang and Chen, 2006

Zhang and Chen 2006, p 643 (♀, ♂, P, L).

Type locality: Jiajinshan, Sichuan (GMU).

China (Sichuan).

moxiense Chen, Huang and Zhang, 2005

Chen et al. 2005, p 177 (♂, P, L).

Type locality: Moxi, Luding, Sichuan (GMU).

China (Sichuan).

taishanense Sun and Li, 2000

Sun and Li 2000, p 86 (♀, ♂, P, L).

Type locality: Taishan, Shandong (XSAS).

Chen and An 2003, p 161 (♀, ♂, P, L).

China (Shandong).

weisiense Deng, Xue and Chen, 2005

Deng et al. 2005, p 191 (♀, ♂, P, L).

Type locality: Weisi, Yunnan (CAET).

China (Yunnan).

Subgenus *Morops* Enderlein (new record)*antlerum* Chen, 2001

Chen 2001a, p 565 (♂, P).

Type locality: Jianfengling, Hainan (GMU).

Chen and An 2003, p 166 (♂, P).

China (Hainan).

Subgenus *Nevermannia* Enderlein***Simulium feuerborni* group***leigongshanense* Chen and Zhang, 1997

Chen and Zhang 1997b, p 301 (♀, ♂, P, L).

Type locality: Leigongshan, Guizhou (GMU).

Zhang et al. 1999, p 232; Chen and An 2003, p 174 (♀, ♂, P, L).

China (Guizhou).

longtanstun Ren, An and Kang, 1998

Ren et al. 1998b, p 103 (♀, ♂, P, L).

Type locality: Qindao, Laoshan, Shandong (IME).

Chen and An 2003, p 204 (♀, ♂, P, L).

giaolaoense Chen, 2001

Chen 2001b, p 563 (♀, ♂, P, L).

Type locality: Qiaolao, Leigongshan, Guizhou (GMU).

Chen and An 2003, p 212 (♂, P, L).

China (Guizhou).

qingshuiense Chen, 2001

Chen 2001b, p 560 (♀, ♂, P, L).

Type locality: Qingshui River, Leigongshan, Guizhou.

Chen and An 2003, p 214 (♀, ♂, P, L).

China (Guizhou).

qiongzhouense Chen, Zhang and Yang, 2003

Chen et al. 2003b, p 745 (♀, ♂, P, L).

Type locality: Jianfengling, Hainan (GMU).

China (Hainan).

shandongense Sun and Li, 2000

Sun and Li 2000, p 88 (♀, ♂, P, L).

Type locality: Taishan, Shandong (XSAS).

Chen and An 2003, p 179 (♀, ♂, P, L).

China (Shandong).

xueae Sun, 1992

Sun and Wang 1994, p 220, 222.

Type locality: Xinbin, Liaoning (XSAS).

Crosskey and Howard 1997, p 52; Chen and An 2003, p 225 (♀, ♂, P, L).

China (Liaoning).

wangxianense Chen, Zhang and Bi, 2004

Chen et al. 2004, p 369 (♀, ♂, P, L).

Type locality: Wangxianling, Chenzhou, Hunan (GMU).

China (Hunan).

***Simulium vernum* group**

chenzhouense Chen, Zhang and Bi, 2004

Chen et al. 2004, p 365 (♀, ♂, P, L).

Type locality: Chenzhou, Hunan (GMU).

China (Hunan).

ludingense Chen, Zhang and Huang, 2005

Chen et al. 2005, p 625 (♀, ♂, P, L).

Type locality: Luding, Sichuan (GMU).

China (Sichuan).

novigracile Deng, Zhang and Chen, 1996

Deng et al. 1996, p 423 (♀, ♂, P, L).

Type locality: Yadong, Tibet (CAET).

Chen and An 2003, p 207 (♀, ♂, P, L) China (Tibet).

raohense Cai and An, 2005

Cai and An 2006, p 646 (♀, ♂, P).

Type locality: Raohe, Heilongjiang (IME).

China (Heilongjiang).

wulingdongense An and Yan, 2006

An and Yan 2006, p 109 (♀, ♂, P).

Type locality: Wulingdong, Raohe county, Heilongjiang (IME).

China (Heilongjiang).

zhangjiajiense Chen, Zhang and Bi, 2004

Chen et al. 2004, p 367 (♀, ♂, P, L).

Type locality: Zhangjiajie, Hunan (GMU).

China (Hunan).

***Nevermannia* species unplaced to group**

dasguptai Datta, 1974 (new record)

Datta 1974, p 459 (P, L).

Type locality: Darjeeling, India.

China (Sichuan), India.

Subgenus *Simulium* Enderlein

***Simulium bezzii* group**

longgengen Sun, 1994

Sun 1994, p 157 (♀, ♂, P, L).

Type locality: Xinbin, Liaoning (XSAS).

Crosskey and Howard 1997, p 64; Chen and An 2003, p 397 (♀, ♂, P, L).

China (Liaoning).

wutaishanense An and Yan, 2003

An and Yan 2003, p 170 (♀, ♂, P).

Type locality: Wutaishan, Shanxi (IME).

China (Shanxi).

xiaodaoense Liu, Shi and An, 2004

Liu et al. 2004, p 197 (♀).

Type locality: Germu, Qinghai (IME).

China (Qinghai).

***Simulium griseifrons* group**

hengshanense Bi and Chen, 2004

Bi and Chen 2004, p 569 (♀, ♂, P, L).

Type locality: Nanyue, Hengshan, Hunan (GMU).

China (Hunan).

spoonatum An and Yan, 1998

An et al. 1998, p 187 (♀, ♂, P).

Type locality: Shang chuan Island, Guangdong (IME).
Chen and An 2003, p 253 (♀, ♂, P).
China (Guangdong).

taipokauense Takaoka, Davies and Dudgeon, 1995
Takaoka et al. 1995, p 194 (♂).
Type locality: Hong Kong (BMH).
Chen and An 2003, p 254 (♂).
China (Hong Kong).

***Simulium malyschevi* group**

acutum Chen, Zhang and Huang, 2005
Chen et al. 2005, p 430 (♀, ♂, P, L).
Type locality: Luding, Sichuan (GMU).
China (Sichuan).

liaoningense Sun, 1994
Sun 1994, p 132.
Type locality: Xinbin, Liaoning (XSAS).
Crosskey and Howard 1997, p 68; Chen and An 2003, p 270 (♀, ♂, P, L).
China (Liaoning).

***Simulium multistriatum* group**

ephippioidum Chen and Wen, 1999
Chen and Wen 1999, p 436 (♀, ♂, P, L).
Type locality: Fanjingshan, Guizhou (GMU).
Zhang et al. 1999, p 234; Chen and An 2003, p 294 (♀, ♂, P, L).
China (Guizhou).

ledongense Yang and Chen, 2001
Yang and Chen 2001, p 90 (♀, ♂, P, L).
Type locality: Ledong, Hainan (GMU).
Chen and An 2003, p 296 (♀, ♂, P, L).
China (Hainan).

parawaterfallum Zhang, Yang and Chen, 2003
Zhang et al. 2003, p 742 (♀, ♂, P, L).
Type locality: Qiongzong, Hainan (GMU).
China (Hainan).

ramulosum Chen, 2000
Chen 2000, p 103 (♀, P, L).
Type locality: Leigongshan, Guizhou (GMU).
Chen and An 2003, p 302 (♀, P, L).
China (Guizhou).

shangchuanense An and Hao, 1998
An et al. 1998, p 187 (♀, ♂, P).

Type locality: Shangchuan, Guangdong, China (IME).
Chen and An 2003, p 305 (♀, ♂, P).
China (Guangdong).

tenuatum Chen, 2000
Chen 2000, p 100 (♀, ♂, P, L).
Type locality: Leigongshan, Guizhou (GMU).
Chen and An 2003, p 308 (♀, ♂, P, L).
China (Guizhou).

uncum Zhang and Chen, 2001
Zhang and Chen 2001, p 216 (♀, ♂, P, L).
Type locality: Leigongshan, Guizhou (GMU).
Chen and An 2003, p 308 (♀, ♂, P, L).
China (Guizhou).

waterfallum Zhang, Yang and Chen, 2003
Zhang et al. 2003, p 741 (♀, ♂, P, L).
Type locality: Qiongzong, Hainan (GMU).
China (Hainan).

wulingense Zhang and Chen, 2000
Zhang and Chen 2000, p 221 (♀, ♂, P, L).
Type locality: Fanjingshan, Guizhou (GMU).
Chen and An 2003, p 309 (♀, P, L).
China (Guizhou).

***Simulium striatum* group**

bahense Chen, 2003
Chen 2003, p 336 (♀, ♂, P).
Type locality: Bahe, Xishuangbanna, Yunnan (GMU).
China (Yunnan).

menglaense Chen, 2003
Chen 2003, p 338 (♀, ♂, P, L).
Type locality: Mengla, Yunnan (GMU).
China (Yunnan).

thailandicum Takaoka and Suzuki, 1994 (new record)
Takaoka and Suzuki 1994, p 37 (♂, P).
Chen and An 2003, p 336, 339 (♂, P).
Type locality: Chiang Mai, Thailand.
Chen 2003, p 336.
China (Yunnan), Thailand.

wuzhishanense Chen, 2003
Chen 2003, p 340 (♀, ♂, P, L).
Type locality: Wuzhishan, Hainan (GMU).
China (Hainan).

***Simulium tuberosum* group**

prominentum Chen and Zhang, 2002

Chen and Zhang 2002, p 70 (P, L).

Type locality: Leigongshan, Guizhou (GMU).

China (Guizhou).

neorufibasis Sun, 1994

Sun 1994, p 185.

Type locality: Xinbin, Liaoning (XSAS).

Crosskey and Howard 1997, p 74; Chen and An 2003, p 338 (♀, ♂, P, L).

China (Liaoning).

shennongjiaense Yang, Luo and Chen, 2005

Yang et al. 2005, p 839 (♀, ♂, P, L).

Type locality: Shennongjia, Hubei (GMU).

China (Hubei).

tianchi Chen, Zhang and Yang, 2003

Chen et al. 2003b, p 746 (♀, ♂, P, L).

Type locality: Tianchi, Jianfengling, Hainan (GMU).

China (Hainan).

***Simulium variegatum* group**

caohaiense Chen and Zhang, 1997

Chen and Zhang 1997a, p 194 (♀, ♂, P, L).

Type locality: Weining, Guizhou (GMU).

Zhang et al. 1999, p 233; Chen and An 2003, p 357 (♀, ♂, P, L).

China (Guizhou).

lonchatum Chen, Zhang and Huang, 2005

Chen et al. 2005, p 432 (♀, ♂, P, L).

Type locality: Yaowangmiao, Luding, Sichuan (GMU).

China (Sichuan).

pelius Sun, 1994

Sun 1994, p 152 (♀, ♂, P, L).

Crosskey and Howard 1997, p 76.

Type locality: Xinbin, Liaoning (XSAS).

Chen and An 2003, p 362 (♀, ♂, P, L).

China (Liaoning).

qianense Chen and Chen, 2001

Chen and Chen 2001, p 208 (♀, ♂, P, L).

Type locality: Leigongshan, Guizhou (GMU).

Chen and An 2003, p 363 (♀, ♂, P, L).

China (Guizhou).

***Simulium venustum* group**

xinbinen Sun, 1994

Sun 1994, p 220 (♀, ♂, P, L).

Type locality: Xinbin, Liaoning (XSAS).

Crosskey and Howard 1997, p 78; Chen and An 2003, p 380 (♀, ♂, P, L).

China (Liaoning).

Subgenus *Simulium* species unplaced to group

peliastrias Sun, 1994

Sun 1994, p 191 (♂).

Type locality: Xinbin, Liaoning (XSAS).

Crosskey and Howard 1997, p 78; Chen and An 2003, p 385 (♂).

China (Liaoning).

rotiflis Chen and Zhang, 1998

Chen and Zhang 1998, p 59 (P, L).

Type locality: Leigongshan, Guizhou (GMU).

Zhang et al. 1999, p 233; Chen and An 2003, p 386 (P, L).

China (Guizhou).

Subgenus *Wilhelmia* Enderlein

dunhuangense Liu and An, 2004

Liu and An 2004, p 161 (♀, P, L).

Type locality: Dunhuang, Gansu (IME).

China (Gansu).

germuense Liu, Gong, Zhang, Luo and An, 2003

Liu et al. 2003, p 58 (♀).

Type locality: Germu, Qinghai (IME).

China (Qinghai).

pekingense Sun, 1999

Sun 1999, p 84 (♀, ♂, P, L).

Type locality: Beijing (XSAS).

Chen and An 2003, p 410 (♀, ♂, P, L).

China (Beijing).

qinghaiense Liu, Gong, Zhang, Luo and An, 2003

Liu et al. 2003, p 57 (♀, ♂).

Type locality: Germu, Qinghai (IME).

China (Qinghai).

qingxilingense Cai and An, 2005

Cai and An 2005, p 628 (♀, ♂, P, L).

Type locality: Qingxiling, Hebei (IME).

China (Hebei).

tachengense Maha, An and Yan, 1997 [preoccupied name]

Maha et al. 1997, p 232 (♀, ♂).

Type locality: Tacheng Suburb, Xinjiang (IME).

Chen and An 2003, p 413 (♂).

China (Xinjiang).

tongbaishanense Chen and Luo, 2006

Chen and Luo 2006, p 640 (♀, ♂, P, L).

Type locality: Tongbaishan, Hubei (GMU).

China (Hubei).

wushiense Maha, An and Yan, 1997

Maha et al. 1997, p 232 (♀, ♂).

Type locality: Wushi, Xinjiang (IME).

Chen and An 2003, p 417 (♀, ♂).

China (Xinjiang).

xingyiense Chen and Zhang, 1998

Chen and Zhang 1998, p 57 (♀, ♂, P, L).

Type locality: Xingyi, Guizhou (GMU).

Zhang et al. 1999, p 233; Chen and An 2003, p 418 (♀, ♂, P, L).

China (Guizhou).

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