

金色蝗属的分类研究及一新种记述 (直翅目: 剑角蝗科)

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摘要: 本文记述采自内蒙古贺兰山地区金色蝗属 *Chrysacris* 1 新种, 即白纹金色蝗 *Chrysacris albonemus* Zheng, Zhang et Zeng sp. nov. 该新种近似于山间金色蝗 *Chrysacris montanis* Zhang et Zheng, 1993, 主要区别为: 1) 头顶及头部背面具中隆线; 2) 前胸背板沟前区长为沟后区长的 1.6~1.8 倍; 3) 前翅前缘脉域宽为中脉域宽的 1.5~2 倍。附有金色蝗属分种检索表。模式标本保存于陕西师范大学动物研究所昆虫标本室。

关键词: 直翅目; 剑角蝗科; 金色蝗属; 分类; 新种; 中国

中图分类号: Q969 文献标识码: A 文章编号: 0454-6296(2011)04-0451-06

A review of the genus *Chrysacris* Zheng (Orthoptera: Acridoidea) with the description of one new species

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Abstract: This paper reports one new species of the genus *Chrysacris* from Helan Mountain, namely *Chrysacris albonemus* Zheng, Zhang et Zeng sp. nov. The new species is allied to *Chrysacris montanis* Zhang et Zheng, 1993, but differs in: 1) with a median keel in vertex and back of head; 2) length of prozona 1.6–1.8 times that of metazona; 3) width of costal area of tegmina 1.5–2 times that of medial area. Type specimens are deposited in the Institute of Zoology, Shaanxi Normal University.

Key words: Orthoptera; Acrididae; *Chrysacris*; taxonomy; new species; China

金色蝗属 *Chrysacris* 为郑哲民(1983)建立, 以秦岭金色蝗 *C. qinlingensis* Zheng, 1983 为模式种; 该属近似于绿洲蝗属 *Chrysochraon* Fisch 及鸣蝗属 *Mongolotettix* Rehn, 其区别于绿洲蝗属为前胸背板侧隆线在沟前区明显, 在沟后区消失; 而区别于鸣蝗属为雌雄前翅均超过后足股节顶端, 顶圆形。廉振民和郑哲民(1987)报道了 *C. robusta* Lian et Zheng, 1987 及 *C. viridis* Lian et Zheng, 1987; 郑哲民(1988)报道了 *C. liaoningensis* Zheng, 1988 及 *C. sinucarinata* Zheng, 1988; 任炳忠等(1991)报道了 *C. heilongjiangensis* Ren, Zhang and Zheng, 1991; 梁铭球和贾凤龙(1992)报道了 *C. flavida* Liang et Jia, 1992; 张凤岭等(1993)报道了 *C. montanis* Zhang et al., 1993; 任炳忠等(1993)报道了 *C. humengensis* Ren, Zhang and Zheng, 1993; 郑哲民(1993a)报道

了 *C. wulingshanensis*, 1993; 牛瑶(1994)报道了 *C. stenosterna* Niu, 1994; 任炳忠等(1994)报道了 *C. jiamusi* Ren, Zhang and Zheng, 1994 及 *C. changbaishanensis* Ren, Zhang and Zheng, 1994; 郑一平等(1995)报道了 *C. tato* Zheng, Zhang and Ren, 1995; 郑一平等(1996)报道了 *C. manzhoulensis* Zheng, Ren and Zhang, 1996。至此, 金色蝗属共计有 15 种, 分布于中国黑龙江、吉林、辽宁、内蒙古、陕西、河南及贵州等省区。

2010 年 7–8 月, 内蒙古贺兰山国家级自然保护区管理局组织了贺兰山地区昆虫调查, 陕西师范大学动物研究所参加了直翅目蝗虫部分的考察。在采到的标本中, 发现有剑角蝗科金色蝗属 1 新种, 现报道如下。模式标本保存于陕西师范大学动物研究所昆虫标本室。

基金项目: 内蒙古贺兰山自然保护区昆虫考察项目

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收稿日期 Received: 2010-11-08; 接受日期 Accepted: 2010-12-28

金色蝗属 *Chrysacris* Zheng, 1983

Chrysacris Zheng, 1983, *Entomotaxonomia*, 5(3): 259; Zheng, 1985, *Acridoidea from YGCSN Regions*, 369; Liu, 1990, *A Handbook for Identifying Grasshoppers of China*, 173, 178; Zheng, 1993b, *Acritaxonomy*, 374, 384; Yin, Shi and Yin, 1996, *A Synonymic Catalogue of Grasshoppers and Their Allies of the World*, 177; Ren, 2001, *Grasshoppers and Locusts*

from Northeast, 133.

模式种: *Chrysacris qinlingensis* Zheng, 1983

体中型。颜面倾斜, 头部背面具中隆线。触角狭剑状。前胸背板侧隆线在沟前区明显, 近平行, 在沟后区消失。前翅发达, 超过后足股节顶端, 顶圆形; 中脉域不具闰脉。雄性后足股节内侧下隆线具发音齿; 下膝侧片顶锐角形。雄性腹部末节背板具尾片。

金色蝗属分种检索表

- 1(2) 雄性后胸腹板侧叶相毗连, 中胸腹板侧叶间中隔较狭, 其长为最狭处宽的 3.5 倍。分布于河南 狭胸金色蝗 *C. stenosterna*
- 2(1) 雄性后胸腹板侧叶分开, 中胸腹板侧叶间中隔较宽
- 3(24) 前胸背板侧隆线在沟前区平行, 直
- 4(9) 前翅前缘脉域与中脉域等宽
- 5(8) 雌性颜面隆起侧缘平行, 在中央单眼之下具纵沟; 触角粗短, 中段一节的长为宽的 1.8~2 倍
- 6(7) 雌性复眼纵径为横径的 1.28 倍; 前胸背板沟后区最宽处为沟前区宽的 1.6 倍。分布于辽宁、吉林 粗壮金色蝗 *C. robusta*
- 7(6) 雌性复眼纵径为横径的 1.42 倍; 前胸背板沟后区最宽处为沟前区宽的 1.39 倍。分布于内蒙古 呼盟金色蝗 *C. humengensis*
- 8(5) 雌性颜面隆区侧缘向下渐宽, 全长具纵沟; 触角细长, 中段一节的长为宽的 2.5~2.7 倍。分布于黑龙江 黑龙江金色蝗 *C. heilongjiangensis*
- 9(4) 前翅前缘脉域与中脉域不等宽
- 10(13) 雌性下产卵瓣下缘端部具凹口
- 11(12) 雌性复眼纵径为眼下沟长的 1.3 倍。前翅前缘脉域最宽处为中脉域宽的 2 倍; 前缘脉域基部具淡白色纵纹。分布于陕西、河南 秦岭金色蝗 *C. qinlingensis*
- 12(11) 雌性复眼纵径与眼下沟等长。前翅前缘脉域最宽处为中脉域宽的 1.5 倍; 前缘脉域基部不具白纹。分布于贵州 武陵山金色蝗 *C. wulingshanensis*
- 13(10) 雌性下产卵瓣下缘端部不具凹口
- 14(17) 雌雄两性前翅前缘脉域与肘脉域等宽
- 15(16) 中胸腹板侧叶间中隔长宽相等。分布于辽宁 辽宁金色蝗 *C. liaoningensis*
- 16(15) 中胸腹板侧叶间中隔较狭, 其最狭处小于其长 1.5 倍。分布于内蒙古 满洲里金色蝗 *C. manzhoulensis*
- 17(14) 雌雄两性前翅前缘脉域与肘脉域不等宽
- 18(19) 前翅径脉不呈黑褐色, 与翅同色。分布于内蒙古 绿金色蝗 *C. viridis*
- 19(18) 前翅径脉黑褐色
- 20(21) 雌性前翅前缘脉域基部具白色纵纹; 前缘脉域宽为中脉域宽的 1.41~1.50 倍。分布于黑龙江 踏头金色蝗 *C. tato*
- 21(20) 雌性前翅前缘脉域基部无白色纵纹; 前翅前缘脉域宽为中脉域宽的 1.53~2.0 倍
- 22(23) 雄性前翅前缘脉域宽为中脉域宽的 2~2.5 倍; 复眼纵径为眼下沟长的 1.27~1.33 倍; 雌性复眼纵径与眼下沟近等长; 上产卵瓣略长于下产卵瓣。分布于黑龙江 佳木斯金色蝗 *C. jiamusi*
- 23(22) 雄性前翅前缘脉域宽为中脉域宽的 2 倍; 复眼纵径为眼下沟长的 1.32~1.52 倍; 雌性复眼纵径略大于眼下沟长; 上、下产卵瓣等长。分布于吉林、黑龙江 长白山金色蝗 *C. changbaishanensis*
- 24(3) 前胸背板侧隆线在沟前区略弯曲
- 25(26) 触角细长, 中段一节的长为宽的 2.5 倍; 头及前胸背板中央具黑褐色纵纹。分布于河南 曲线金色蝗 *C. sinucarinata*
- 26(25) 触角较粗短, 中段一节的长为宽的 1.2~1.5 倍; 头及前胸背板中央不具黑褐色纵纹
- 27(28) 中胸腹板侧叶间中隔长为最狭处宽的 1.25 倍; 前翅前缘脉域宽为中脉域宽的 2 倍; 前缘脉域基部不具白色纵纹。分布于内蒙古 浅金色蝗 *C. flavida*

- 28(27)中胸腹板侧叶间间隔长为最狭处宽的1.7~2倍;前翅前缘脉域宽为中脉域宽的1.3~1.5倍;前缘脉域基部具白色纵纹
- 29(30)雌性,触角中段一节长为宽的1.5倍;头顶背面具中隆线;前胸背板沟前区长为沟后区长的1.3倍;前翅前缘脉域宽为中脉域宽的1.3倍;下生殖板后缘中央三角形突出。分布于辽宁……山间金色蝗 *C. montanis*
- 30(29)雌性,触角中段一节长为宽的1.25倍;头顶及头部背面具中隆线;前胸背板沟前区长为沟后区长的2倍;前翅前缘脉域宽为中脉域宽的1.5倍;下生殖板后缘呈角状突出。分布于内蒙古……………白纹金色蝗 *C. albonemus* sp. nov.

Key to species of *Chrysacris* Zheng

- 1(2) Metasternal lobes of male contiguous each other, interspace of mesosternal lobes narrower, its length 3.5 times the narrowest width. Distributed in Henan …………… *C. stenosterna*
- 2(1) Metasternal lobes of male separated each other, interspace of mesosternal lobes wider.
- 3(24) Lateral keels of prozona parallel, straight.
- 4(9) Width of costal area of tegmina equal to width of medial area.
- 5(8) Lateral margin of frontal ridge parallel in female, with longitudinal furrow under median ocellus; antennae stout, length of middle segment 1.8–2 times its width.
- 6(7) Longitudinal diameter of female eyes about 1.28 times horizontal diameter; width of metazoan at widest 1.6 times width of prozona. Distributed in Liaoning, Jilin …………… *C. robusta*
- 7(6) Longitudinal diameter of female eyes about 1.42 times horizontal diameter; width of metazoan at widest 1.39 times width of prozona. Distributed in Inner Mongolia …………… *C. humengensis*
- 8(5) Lateral margin of frontal ridge wider downwards in female, all length with longitudinal furrow; antennae filiform, length of middle segment 2.5–2.7 times its width. Distributed in Heilongjiang …………… *C. heilongjiangensis*
- 9(4) Width of costal area of tegmina not equal to width of medial area.
- 10(13) Top of lower margin of lower valvula of ovipositor with concavity in female.
- 11(12) The longitudinal diameter of eyes in female 1.3 times subocular furrow. Costal area of tegmina 2 times medial area in width; basal part of costal area with light white longitudinal grain. Distributed in Shaanxi, Henan …………… *C. qinlingensis*
- 12(11) The longitudinal diameter of eyes in female equal to subocular furrow. Costal area of tegmina 1.5 times medial area in width; basal part of costal area without white grain. Distributed in Guizhou …………… *C. wulingshanensis*
- 13(10) Top of lower margin of lower valvula of ovipositor without concavity in female.
- 14(17) Costal area of tegmina equal to cubital area in width both in male and female.
- 15(16) Interspace of mesosternal lobes narrower, its length equal to its width. Distributed in Liaoning …… *C. liaoningensis*
- 16(15) Interspace of mesosternal lobes narrower, its width at narrowest less than 1.5 times its length. Distributed in Inner Mongolia …………… *C. manzhouensis*
- 17(14) Costal area of tegmina not equal to cubital area in width both in male and female.
- 18(19) Radial of tegmina not dark brown, same color as for tegmina. Distributed in Inner Mongolia …………… *C. viridis*
- 19(18) Radial of tegmina dark brown.
- 20(21) Basal part of costal area of tegmina of female with white longitudinal grain; costal area of tegmina 1.41–1.50 times medial area. Distributed in Heilongjiang …………… *C. tato*
- 21(20) Basal part of costal area of tegmina of female without white longitudinal grain; costal area of tegmina 1.53–2.0 times medial area.
- 22(23) Width of costal area in male tegmina 2–2.5 times medial area; longitudinal diameter of eyes 1.27–1.33 times subocular furrow; longitudinal diameter of eyes in female nearly equal to subocular furrow; upper valvula of ovipositor slightly longer than lower valvula of ovipositor. Distributed in Heilongjiang …………… *C. jiamusi*
- 23(22) Width of costal area in male tegmina 2 times medial area; longitudinal diameter of eyes 1.32–1.52 times subocular furrow; longitudinal diameter of eyes in female slightly longer than subocular furrow; upper valvula of ovipositor slightly equal to lower valvula of ovipositor. Distributed in Heilongjiang, Jilin …………… *C. changbaishanensis*
- 24(3) Lateral keels of prozona slightly curve.
- 25(26) Antenna slender, length of middle segment 2.5 times its width; middle of head and pronotum with dark brown longitudinal grain. Distributed in Henan …………… *C. sinucarinata*

- 26(25) Antenna quite stout, length of middle segment 1.2 - 1.5 times its width; middle of head and pronotum without dark brown longitudinal grain.
- 27(28) Length of interspace of mesosternal lobes 1.25 times its width; width of costal area of tegmina 2 times width of medial area. Basal part of costal area without white longitudinal grain. Distributed in Inner Mongolia *C. flavida*
- 28(27) Length of interspace of mesosternal lobes 1.7 - 2 times its width; width of costal area of tegmina 1.3 - 1.5 times width of medial area. Basal part of costal area with white longitudinal grain.
- 29(30) In female, length of middle segment of antenna 1.5 times its width; disc of vertex with midkeel; prozona 1.3 times metazona; width of costal area of tegmina 1.3 times width of medial area; hind margin of subgenital plate with a triangular process in the middle. Distributed in Liaoning *C. montanis*
- 30(29) In female, length of middle segment of antenna 1.25 times its width; disc of head and vertex with midkeel; prozona 2 times metazona; width of costal area of tegmina 1.5 times width of medial area; hind margin of subgenital plate angular protruding. Distributed in Inner Mongolia *C. albonemus* sp. nov.

白纹金色蝗, 新种 *Chrysacris albonemus* Zheng, Zhang and Zeng sp. nov. (图 1 ~ 6)

雌性: 体中型。头部大, 略短于前胸背板, 头顶长几与复眼前最宽处相等, 头顶及头部背面具明显的中隆线。缺头侧窝。颜面侧观极倾斜, 颜面侧隆线直。触角剑状, 粗短, 中段一节的长为宽的 1.25 倍。复眼卵圆形, 复眼纵径为横径的 1.3 倍, 而与眼下沟几等长。前胸背板背面较平, 前缘平

直, 后缘微弧形几直, 中隆线全长明显, 侧隆线在沟前区明显, 略弯曲, 在沟后区消失, 仅后横沟切断中隆线, 沟前区长为沟后区长长的 2 倍。中胸腹板侧叶间中隔的长为最狭处宽的 1.66 倍; 后胸腹板侧叶分开。前翅发达, 超过后足股节顶端, 翅顶圆形, 翅长为宽的 5.6 倍, 前缘脉域最宽处为中脉域宽的 1.5 倍, 而与肘脉域等宽, 径脉域与中脉域等宽, 各个脉域均不具闰脉。后翅与前翅等长。后足

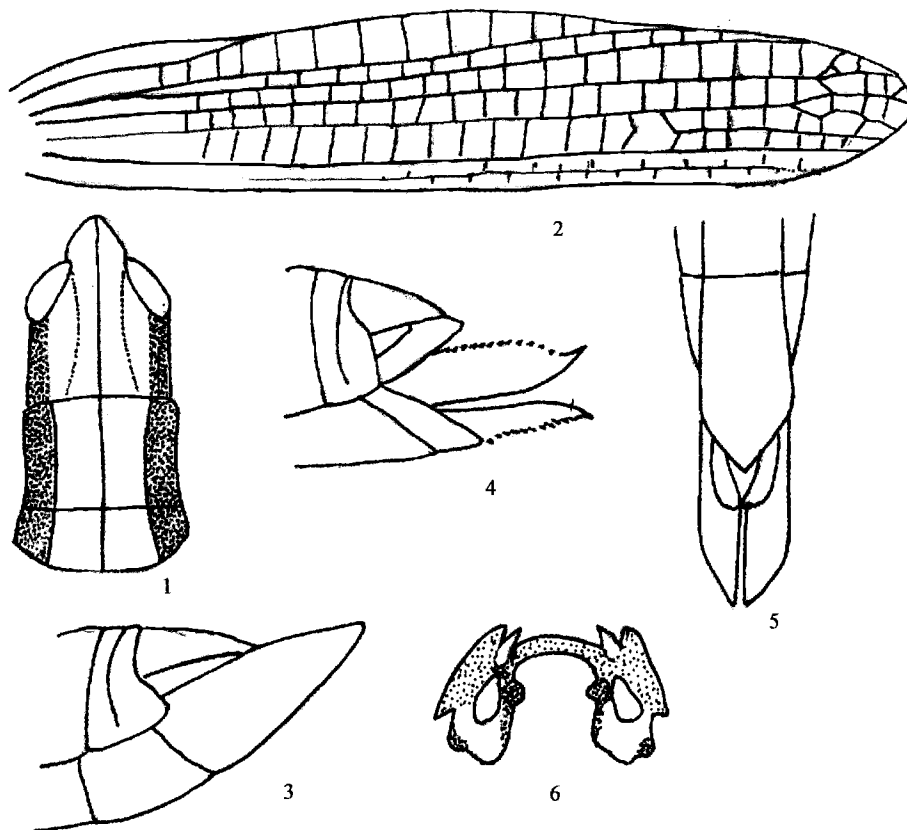


图 1 ~ 6 白纹金色蝗 *Chrysacris albonemus* sp. nov.

Figs. 1 - 6 *Chrysacris albonemus* sp. nov.

1: 头、前胸背板背面 Head and pronotum, dorsal view; 2: 前翅 Elytra, ♂; 3: 雄性腹端侧面 Terminalia, lateral view, ♂; 4: 雌性腹端侧面 Terminalia, lateral view, ♀; 5: 雌性腹端腹面 Terminalia, ventral view, ♀; 6: 阳具基背片 Epiphallus.

股节较细长, 长为宽的 6.5 倍, 中侧中隆线平滑, 下膝侧片顶圆形。后足胫节外侧具刺 11~14 个, 内侧具刺 12~13 个, 缺外端刺; 后足跗节第 1 节长为第 2、3 节长之和; 爪间中垫大, 超过爪长之 1/2。肛上板三角形, 中央具宽浅纵沟。尾须短锥形。产卵瓣较粗短, 上产卵瓣长为宽的 3.1~3.8 倍, 上、下产卵瓣均具细齿。下生殖板长大于宽, 后缘角形突出。

体黄褐色, 头部背面具 1 对黑褐色纵纹, 具黑色眼后带, 前胸背板侧隆线淡色, 侧片上半部黑色; 前翅黄褐色, 前缘脉、亚前缘脉、径脉及中脉基部黑褐色, 前缘脉域基部具白色纵纹; 上膝侧片黑色; 后足胫节黄褐色。

雄性: 体较雌性细瘦, 触角剑状, 中段一节长为宽的 1.5 倍; 前胸背板沟前区长为沟后区长长的 1.83 倍; 中胸腹板侧叶间中隔长为最狭处宽的 2 倍; 前翅长为宽的 5.2 倍; 前缘脉域最宽处为中脉域宽的 2 倍, 为肘脉域宽的 1.3 倍; 后足股节较细长, 长为宽的 5 倍; 后足胫节外侧具刺 12 个, 内侧具刺 13 个; 肛上板三角形, 中央具宽浅纵沟。尾须长锥形; 下生殖板长锥形, 阳具基背片如图 6。体色同雌性。

体长: ♂ 20 mm; ♀ 25~27 mm; 前胸背板长: ♂ 3.5 mm; ♀ 4~4.5 mm; 前翅长: ♂ 15 mm; ♀ 17~18 mm; 后足股节长: ♂ 9.5 mm; ♀ 11.5~12 mm。

正模 ♀, 内蒙古: 贺兰山(甘树湾) 105°08'E, 38°06'N, 2010-VII-31, 曾慧花, 张红利采; 副模: 1 ♂ 1 ♀, 同正模; 1 ♀, 内蒙古: 贺兰山(南寺), 2010-VIII-14, 曾慧花, 张红利采。

该新种近似于山间金色蝗 *C. montanis* Zhang *et al.*, 1993, 主要区别为: 1) 触角粗短, 中段一节长为宽的 1.25 倍; 2) 头顶及头部背面具中隆线; 3) 前胸背板沟前区长为沟后区长长的 2 倍; 4) 前翅前缘脉域宽为中脉域宽的 1.5 倍; 5) 雌性下生殖板后缘呈角状突出。

词源: 新种名以拉丁字“*alb*”(白)及“*nemus*”(纹)为名。

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Appendix: Brief descriptions of new taxa***Chrysacris albonemus* sp. nov.** (Figs. 1–6)

The new species is allied to *Chrysacris montanis* Zhang et Zheng, 1993, but differs in: 1) length of middle segment of antenna 1.25 times its width; 2) with a median keel in vertex and back of head; 3) length of prozona 2 times the length of metazona; 4) width of costal area 1.5 times medial area; 5) hind margin of subgenital plate of female angular protruding.

Length of body: ♂ 20 mm; ♀ 25–27 mm; length of pronotum: ♂ 3.5 mm; ♀ 4–4.5 mm; length of elytra: ♂ 15 mm; ♀ 17–18 mm; length of hind femur: ♂ 9.5 mm; ♀ 11.5–12 mm.

Holotype ♀, Inner Mongolia: Helan Mountain, 105°08'E, 38°06'N, 31. VII. 2010, collected by ZENG Hui-Hua and ZHANG Hong-Li; paratypes 1 ♂ 1 ♀, same data as for holotype, 1 ♀, Inner Mongolia: Helan Mountain, 105°08'E, 38°06'N, 14. VIII. 2010, collected by ZENG Hui-Hua and ZHANG Hong-Li.

Etymology: The specific name is derived from the Latin words “alb” and “nemus”.