

The genera *Agathocles* and *Surenus* (Hemiptera: Heteroptera: Pentatomidae): tribal reassessment, redescription, new synonyms, and description of two new species

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Abstract

The genus *Surenus* Distant, 1901 (Hemiptera: Heteroptera: Pentatomoidea: Pentatomidae: Pentatominae: Halyini) is revisited and found to be a junior subjective synonym of the genus *Agathocles* Stål, 1876 (currently Pentatominae: Rolstoniellini). The genus *Agathocles* and its type species, *Agathocles limbatus* Stål, 1876, are redescribed. Lectotype of *Surenus normalis* Distant, 1901 (= *Agathocles normalis* (Distant, 1901) **comb. nov.**) is designated and the unknown male of the species is described. *Agathocles yunnanensis* Zhang & Lin, 1984, **syn. nov.**, is considered junior subjective synonym of *A. limbatus*. Two new species are described: *Agathocles flavipes* **sp. nov.** from India (Andhra Pradesh, Karnataka, Maharashtra, and Tamil Nadu) and *A. joceliae* **sp. nov.** from Malaysia (Kelantan, Perak). The new species differ from their congeners mainly by the morphology of mandibular plates, length of antennomeres I, IIa and IIb, body length, and structure of male genitalia. *Agathocles dubius* Distant, 1921 is transferred to the genus *Caystrus* Stål, 1861 (Pentatominae: Caystrini) based on examination of its holotype with the resulting new combination: *Caystrus dubius* (Distant, 1921), **comb. nov.** One new combination is proposed, *Paramecocoris ruficornis* (Fieber, 1851), **comb. nov.** (from preoccupied *Paramecus* Fieber, 1851), and its type locality is clarified as Tenasserim (south Myanmar). Gender agreement and authorship of the name *Riazocoris niger* Ahmad & Afzal, 1977 in Ahmad *et al.* (1977: 161) are corrected and status of its name bearing type is clarified as lectotype. The following new distribution records are given: *A. limbatus* from Cambodia, China (Guangxi, Tibet), Laos and Thailand, *A. normalis*, *Caystrus obscurus* (Distant, 1901a) and *Critheus lineatifrons* Stål, 1869 from Laos, *Amasenus corticalis* Stål, 1863 from Cambodia, Indonesia (E Kalimantan), Laos, Myanmar and Thailand, and *Rolstoniellus boutanicus* (Dallas, 1849) from Vietnam. Based on characters of external morphology and genitalia, the genus *Agathocles* is compared with representatives of the genera *Halys* Fabricius, 1803 (Halyini), *Caystrus* (Caystrini), *Laprius* Stål, 1861 (Myrocheini), and *Exithemus* Distant, 1902 (currently in Rolstoniellini). As a result, the genus *Agathocles* is here transferred to the tribe Caystrini. The genus *Kyrtalus* Van Duzee, 1929 is tentatively placed in Myrocheini based on the presence of sulcate mesosternum and femora provided with teeth.

Key words: Caystrini, Halyini, Myrocheini, Rolstoniellini, *Kyrtalus*, *Laprius*, *Riazocoris*, taxonomy, India, Oriental Region

Introduction

The stink bugs of the family Pentatomidae represent the third most species-rich family of true bugs (Hemiptera: Heteroptera) (Henry 2017). Among the ten recognized subfamilies of Pentatomidae, the nominotypical subfamily Pentatominae is the most speciose subfamily, with more than 660 genera and 3,484 described species, divided to 42 tribes (Rider *et al.* 2018). Currently we lack a robust hypothesis about the phylogenetic relationships within Pentatomidae. There are two main reasons for such an unsatisfactory situation: i) There is large number of described genus- and species-group taxa, many of them being described (usually without illustrations) by taxonomists of 19th and early 20th century. Many of these taxa require modern revision and redescription to allow their proper identification and systematic placement. ii) There are many characters in both external and genitalic morphology