



Contributions to the knowledge of *Euschistus* (*Lycipta*) with the description of *E. (L.) riograndensis* sp. nov. (Hemiptera: Heteroptera: Pentatomidae: Pentatominae: Carpocorini)

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Abstract

A new species of *Euschistus* Dallas, 1851, *Euschistus* (*Lycipta*) *riograndensis* sp. nov. from Rio Grande do Sul, Brazil, is described and illustrated. A key for the species of the subgenus is provided.

Key words: Heteroptera, Pentatomidae, *Euschistus*, *Lycipta*, Neotropical, new taxon

Introduction

Lycipta Stål (1862a) was proposed as a genus to include three species previously placed in *Euschistus* Dallas – *Euschistus illotus* Stål, 1860; *E. triangulator* (Herrich-Schäffer, 1842); and *E. scabricornis* (Herrich-Schäffer, 1844). Later, Stål (1862b) treated *Lycipta* as a subgenus of *Euschistus* and described *E. (L.) spurculus*. Stål (1872) transferred *E. spurculus* to *Euschistus* (*Euschistus*); treated *E. scabricornis* as *inserti generis* (actually *Agroecus scabricornis*); and added three new species to *Euschistus* (*Lycipta*). As a result (Stål 1872), there are five species: *E. (L.) cornutus* (Dallas, 1851); *E. (L.) cribrarius* Stål, 1872; *E. (L.) illotus*; *E. (L.) picticornis* Stål, 1872; and *E. (L.) triangulator*. Rolston (1982) added five new species to *Lycipta*: *E. (L.) luridus* (Dallas, 1851); *E. (L.) circumfusus* Berg, 1883; *E. (L.) imitator* Berg, 1878; *E. (L.) machadus* Rolston, 1982; and *E. (L.) sharpi* Bergroth, 1891. Thomas (1983) corrected the homonymy of *Euschistus luridus* Dallas, 1851, replacing the name of *E. (L.) aceratos* Berg, 1894. Grazia & Hildebrand (1982) transferred *Berecynthus monrosi* Pirán, 1963 to *Euschistus*; Rolston (1984), based on the illustrations of the head and spermatheca of *E. monrosi* provided by Grazia & Hildebrand (1982), included this species in the subgenus *Lycipta*. Finally, Grazia & Hildebrand (1983) described *E. (Lycipta) longicornis*, for a total of 12 species in the subgenus.

Most species are predominantly distributed in southern South America from Bolivia to midwest, southeast, and south Brazil, and reaching Uruguay and Argentina. Recently, surveys were done at “Campos de Cima da Serra”, São Francisco de Paula National Forest, in the Municipality of São Francisco de Paula, Rio Grande do Sul state. Eighteen specimens of *Euschistus* that were not conspecific with known species were collected. Also in the collection of the Department of Zoology of the Federal University of Rio Grande do Sul (UFRG) are deposited six specimens collected at four municipalities of Rio Grande do Sul State: São Francisco de Paula, Esmeralda, Caçapava do Sul, and Pelotas; and 13 specimens from laboratory rearing. In the collection of Museu Anchieta we also found two specimens collected in Caxias do Sul, Rio Grande do Sul. Based on these specimens, a new species of *Euschistus* (*Lycipta*) is here described.

In a cladistic analysis of the subgenus *Lycipta* (Weiler 2011) the group proved to be monophyletic with the removal of *E. monrosi*. These results will be published elsewhere.

The last paper published on the subgenus *Lycipta* was that of Rolston (1982), in which he presented a key to the species; now, a new revised key to the subgenus.