



## ***Stegoelmis* Hinton, 1939 (Coleoptera: Elmidae: Elminae) in Brazil: two new species and a key to the Brazilian species**

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### **Abstract**

Two new species of the genus *Stegoelmis* Hinton, 1939, *S. figueiredoensis* **sp. nov.** from Amazonas State, Brazil and *S. shepardi* **sp. nov.** from Roraima State, Brazil and Saint Laurent Du Maroni, French Guiana, are described and illustrated based on adult specimens. This work also provides a taxonomic key to males of *Stegoelmis* species known from Brazil.

**Key words:** aquatic insects, Neotropics, riffle beetle, *Stegoelmis*, taxonomy

### **Resumo**

Duas novas espécies do gênero *Stegoelmis* Hinton, 1939, *S. figueiredoensis* **sp. nov.** do Estado do Amazonas, Brasil e *S. shepardi* **sp. nov.** do Estado de Roraima, Brasil e de Saint Laurent Du Maroni, Guiana Francesa, são descritas e ilustradas baseado em espécimes adultos. Este trabalho também traz uma chave taxonômica para os machos das espécies de *Stegoelmis* do Brasil.

### **Introduction**

The Neotropical genus *Stegoelmis* Hinton, 1939 was erected based on *Stenelmis geayi* (Grouvelle, 1908) known from Ecuador, French Guiana, Guyana and Venezuela, and the species *Stegoelmis verrucata* Hinton, 1939 known from northern Brazil and French Guiana (Spangler, 1990). Later, Sanderson (1953) described *Stegoelmis hintoni*, which was placed by Spangler (1990) as a junior synonym of *S. geayi*. In his revision of the genus *Stegoelmis*, Spangler (1990) recognized two valid species and described another nine species. His review also provides a key to the known species, information about the biology and distribution of the species, and the description of the larvae of two *Stegoelmis* species.

The genus is currently known from Brazil, Colombia, Ecuador, French Guiana, Guiana, Paraguay, Peru and Venezuela. Of the eleven known species, only three were recorded from Brazil: *Stegoelmis verrucata* (Pará State), *Stegoelmis ica* Spangler, 1990 (Amazonas State) and *Stegoelmis stictoides* Spangler, 1990 (Amazonas State) (Fig. 1).

*Stegoelmis* can be distinguished from all other Elmidae genera by the combination of the following characteristics (Spangler, 1990): body robust, elongate and subparallel; dorsum and venter mostly covered with plastron; pronotum usually with gibbosities or protuberances and with a wide longitudinal impression; elytra usually with gibbosities or protuberances in humeral areas and subapically; epipleura vertical, when faced laterally.