

## The beetle family Carabidae of Costa Rica and Panamá: Descriptions of four new genera and six new species with notes on their way of life (Insecta: Coleoptera)

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### Abstract

A new genus and two new species of Bembidiini, Tachyina, (type localities in parentheses) *Tachysbembix sirena* Erwin **new genus, new species** (P.N. Corcovado, Llorona, 20 km N Estación Sirena, 1–100 m, 08° 37' N 083° 42' W, LS 270500,508300) and *Tachysbembix wendyporrasae* Erwin **new genus, new species** (Guanacaste, Nandayure, Estero Jabilla, sea level, 10° 02' N 085° 11' W, LN 199225,395300), two new genera and two new species of Lachnophorini, *Pseudophorticus puncticollis* **new genus, new species** (Limón, Hamburg Farm, Rio Reventazon, Ebene, 100 m, 10° 15' N, 083° 28' W) and *Guatemalteca virgen* Erwin **new genus, new species** (Heredia, 16.0 km SSE La Virgen, 1050–1150 m, 10° 16' N, 84° 05' W, LN527381,257085), and a new genus and two new species of Lebiini, Agrina, *Valeriaaschero flora* Erwin **new genus, new species** (Guanacaste, P.N. Guanacaste, Estación Pitilla, Santa Cecilia, 700 m, 10° 59' 33" N, 085° 25' 46" W, LN330200,380200) and *Valeriaaschero nigrata* Erwin **new genus, new species** (Puntarenas, Península de Osa, Rancho Quemado, 200 m, 8° 40' 44" N, 83° 34' 00" W, LS292500,511000) are diagnosed, described and illustrated. Thus far, all species are known only from Costa Rica except *Valeriaaschero flora* Erwin which also occurs in northwestern Panamá. The bembidiines live at the sea shore; the lachnophorines live amongst leaf litter in lowland or cloud forests; the lebiines are arboreal in lowland forests. This paper validates the names of the new genera and species so that information about them can be made available for enhancing the National Biodiversity Inventory Project of Costa Rica. In addition, the following species described originally in the genera *Euphorticus* or *Lachnophorus* are transferred to *Pseudophorticus*: *Pseudophorticus semirufa* (Bates) from *Lachnophorus* (Bates 1878); *Pseudophorticus lucidus* (Bates) from *Lachnophorus* (Bates 1883); *Pseudophorticus subauratus* (Bates) from *Euphorticus* (Bates 1884), **new combinations**.

**Key words:** Costa Rica, Panamá, Carabidae, Bembidiini, Lachnophorini, Lebiini, INBio.