

## A revision of Nearctic species of the genus *Geostiba* Thomson, 1858 (Coleoptera: Staphylinidae: Aleocharinae)

VLADIMIR I. GUSAROV

*Division of Entomology, Natural History Museum, University of Kansas, Lawrence, KS 66045-7523, U.S.A.*  
and

*Department of Entomology, St. Petersburg State University, Universitetskaya nab., 7/9, St. Petersburg 199034,  
Russia*  
vlad@ku.edu

### Abstract

Nearctic species of the genus *Geostiba* Thomson, 1858 are revised. Redescription and illustrations are provided for distinguishing the genus *Geostiba* from other aleocharine genera. Six new species of *Geostiba* are described (*G. (Sibiota) crepusculigena* Gusarov, **sp. n.** from Tennessee, *G. (S.) pluvigena* Gusarov, **sp. n.** from North Carolina, *G. (S.) coeligena* Gusarov, **sp. n.** and *G. (S.) nebuligena* Gusarov, **sp. n.** from Tennessee and North Carolina, *G. (S.) appalachigena* Gusarov, **sp. n.** from West Virginia, Virginia, Maryland, Pennsylvania, New Jersey, New York, Massachusetts, Rhode Island, New Hampshire, Maine, Wisconsin and Québec; *G. (S.) silvigena* Gusarov, **sp. n.** from California). Nine species are redescribed (*G. (S.) alticola* Lohse & Smetana, 1988, *G. (S.) balsamensis* Pace, 1997, *G. (S.) bicarinata* Lohse & Smetana, 1988, *G. (S.) graveyardensis* Pace, 1997 and *G. (S.) nubigena* Lohse & Smetana, 1988 known from North Carolina, *G. (S.) carteriensis* Pace, 1997 and *G. (S.) nimbicola* Lohse & Smetana, 1988 known from Tennessee and North Carolina, *G. (S.) impressula* (Casey, 1906) known from Oregon, and *G. (s. str.) circellaris* (Gravenhorst, 1806) introduced from Europe to Newfoundland). A key for identification of Nearctic species of *Geostiba* is provided. *Geostiba impressula* (Casey, 1906) is removed from synonymy with *G. circellaris*. *Ditroposipalia* Scheerpeltz, 1951 is placed in synonymy with *Sibiota* Casey, 1906 (a valid subgenus of *Geostiba*), *Geostiba fossata* (Casey, 1910) with *G. impressula* (Casey, 1906), *Sipaliella* Casey, 1911 with *Meotica* Mulsant & Rey, 1873 (a valid genus in tribe Oxypodini) and *Sipalia* (*Sipaliella*) *filaria* Casey, 1911 with *Meotica pallens* (Redtenbacher, 1849). *Tylosipalia* Scheerpeltz, 1951 is confirmed to be a synonym of *Typhlusida* Casey, 1906 (a valid subgenus of *Geostiba*). The lectotype of *Sipalia fossata* Casey, 1906 is designated. The geographical distribution of *Geostiba* in the Southern Appalachians is discussed.

**Key words:** Coleoptera, Staphylinidae, Aleocharinae, *Geostiba*, *Sibiota*, *Ditroposipalia*, *Tylosipalia*, *Typhlusida*, *Sipaliella*, *Meotica*, taxonomy, new species, synonymy, Nearctic, identification key, Southern Appalachians