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**New species of *Glossoscolex* (Clitellata: Glossoscolecidae)  
from Rio Grande do Sul, Brazil\***

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Surveys conducted in the State of Rio Grande do Sul, from the 1920s until the year 2010, indicated the existence of at least 44 identified species of earthworms. Out of them 15 species were native (34%) and 29 species were of exotic origin (66%). These species are grouped into six families, and most of them belong to the family Lumbricidae (12 species) and Glossoscolecidae (11 species). The aim of this study was to present the description of six new species of native earthworms of the genus *Glossoscolex* collected in ecosystems of the State of RS, Brazil. The earthworm specimens were obtained by digging and hand sorting in sites with natural vegetation (swamp, native grassland, fragments of forest) and also with human impact, such as annual crops (oats) and pastures. Six new species of Oligochaeta of the genus *Glossoscolex* from Rio Grande do Sul State, Brazil are presented and described recently: *Glossoscolex (Glossoscolex) knapperae* n. sp., *G. (G.) pastivus* n. sp., *G. (G.) pampas* n. sp., *G. (G.) riograndensis* n. sp., *G. (G.) nativus* n. sp. and *G. (G.) parvus*. All new species are part of the *truncatus* species group of *Glossoscolex (Glossoscolex)* (male pores present in xvii). Species-specific characters are presented in order to clarify the differences among the species described and related species. Habitat and soil associations of the new species are given.