



Edaphic ascid mites (Acari: Mesostigmata: Ascidae) from the state of São Paulo, Brazil, with description of five new species

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Abstract

This paper reports the occurrence of 11 species of edaphic mites of the family Ascidae collected from soil and litter in southeastern Brazil. Five are new to science, namely *Cheiroseius neophalangioides* **sp. nov.**, *Gamasellodes magniventris* **sp. nov.**, *Lasioseius latinoamericanus* **sp. nov.**, *Proctolaelaps paulista* **sp. nov.** and *Protogamasellus sigillophorus* **sp. nov.**. Among the other species collected, diagnoses and collection data are provided for *Asca garmani* Hurlbutt, 1963, *Blattisocius tarsalis* (Berlese, 1918), *Proctolaelaps diffissus* Karg, 1976 and *Protogamasellus mica* (Athias-Henriot, 1961); these are the first Brazilian collection records for these species other than *B. tarsalis* in stored products. *Lasioseius helvetius* Chant, 1958 is considered a senior synonym of *L. saltatus* Karg, 1980 (**new synonymy**), the latter reported previously from Brazil. *Lasioseius quinisetosus* Lindquist & Karg, 2006 (= *Cheiroseius inguinalis* Karg, 1977) is newly recorded from Brazil. Diagnoses and redescriptions are provided for *L. helvetius* and *L. quinisetosus*. *Proctolaelaps intermedius* Athias-Henriot, 1959 is considered a senior synonym of *P. orientalis* (Chant, 1963) and *P. wenkochingi* “(Samšinák, 1964)” (**new synonymies**).

Key words: Acari, new species, taxonomy, soil, litter