



## Syllinae (Polychaeta: Syllidae) from Australia. Part 3. Genera *Alcyonosyllis*, Genus A, *Parahaplosyllis*, and *Trypanosyllis* (*Trypanobia*)

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### Abstract

Large collections of Australian Syllidae (Polychaeta) from the Australian Museum (Sydney) have been examined and identified, together with material from the Hamburgische Zoologische Museum der Universität (Hamburg, Germany), as well as some specimens from other museums. All known Australian species of the subfamily Syllinae belonging to the genera *Alcyonosyllis* Glasby & Watson, 2001 (1 species), Genus A (1 species), *Parahaplosyllis* Hartmann-Schröder, 1990 (1 species), and *Trypanosyllis* (*Trypanobia*) Imajima & Hartman, 1964 (2 species), are fully described and figured, except *Alcyonosyllis phili* Glasby & Watson, 2001 that recently was described based on Australian material.

**Key words:** Australia, Syllidae, Syllinae, taxonomy

### Introduction

This is the fifth contribution on Australian Syllidae (Annelida, Polychaeta), especially from Western Australia and New South Wales, based on the large collections of the Australian Museum. These papers also revised the Australian polychaete materials collected and described by Hartmann-Schröder (1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1989, 1990, 1991a) and summarized the previously published ones (San Martín 2002, 2005; San Martín & López 2003; San Martín & Hutchings 2006; San Martín *et al.* 2007, 2008a, 2008b). A general introduction to the Syllidae, particularly the Australian ones, including the definition of terms used in this paper was provided by San Martín (2005) and San Martín *et al.* (2008a).

In the present paper, all Syllinae species of *Alcyonosyllis*, Genus A, *Parahaplosyllis* and *Trypanosyllis* (*Trypanobia*) are described and figured except *A. phili* Glasby and Watson, (2001), a species recently described based on Australian material. Keys to the Australian species are also provided. In addition *Trypanosyllis* (*Trypanobia*) cf. *foliosa* and two specimens that may belong to a new species and a new genus (Genus A sp A) are reported for the first time from Australia.

### Material and methods

Most of the examined material belongs to the collections of the Australian Museum (AM), and was collected by N. Coleman, G. Wilson, J. K. Lowry, R. T. Springthorpe, H. E. Stoddart, P. A. Hutchings, A. Murray, T. J. Ward, P. C. Young, and A. Jones, among others. The Australian material from the Zoologisches Museum of Hamburg (HZM), collected and identified by Hartmann-Schröder, has been re-examined and compared with the collections at the Australian Museum. The specimens are preserved in 70% ethanol after fixation in formalin. All observations were made using a compound microscope with interference contrast optics (Nomarsky). Drawings were made using a camera lucida. Scanning Electron Microscope (SEM) observations and photographs were made at the Servicio Interdepartamental de Investigación (SIDI) of the Universidad