

Eusyllinae (Polychaeta: Syllidae) from Australia with the Description of a New Genus and Fifteen New Species

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ABSTRACT. Large collections of Syllidae (Polychaeta) from around Australia, housed at the Australian Museum (Sydney), have been examined and identified. Australian material from the Hamburgische Zoologische Museum der Universität, Hamburg, Germany was also examined. All known Australian species of the subfamily Eusyllinae (Syllidae) are described and figured. Some were examined using the Scanning Electron Microscope to illustrate characters and methods of reproduction in this subfamily. Keys to genera and species are given. A total of 53 species are reported from Australia belonging to 14 genera: *Amblyosyllis* Grube, 1857 (3 species); *Anoplosyllis* Claparède, 1868 (1 species); *Astreptosyllis* Kudenov & Dorsey, 1982 (2 species); *Eusyllis* Malmgren, 1867 (3 species); *Nudisyllis* Knox & Cameron, 1970 (1 species); *Odontosyllis* Claparède, 1863 (9 species); *Opisthodontia* Langerhans, 1879 (3 species); *Paraehlersia* San Martín, 2003 (2 species); *Paraopisthosyllis* Hartmann-Schröder, 1991 (4 species); *Pionosyllis* Malmgren, 1867 (15 species); *Psammossyllis* Westheide, 1990 (1 species); *Streptodontia* n.gen. (1 species); *Streptosyllis* Webster & Benedict, 1884 (3 species); and *Syllides* Örsted, 1845 (5 species). A total of 15 new species are described: *Amblyosyllis enigmatica*, *A. multidenticulata*, *Odontosyllis marombibooral*; *Opisthodontia hanneloreae*, *Paraopisthosyllis alternocirra*, *P. ornaticirra*, *Syllides tam*, *Pionosyllis rousei*, *P. kalimna*, *P. yolandae*, *P. mariae*, *P. mayteae*, *P. ancori*, *P. koolalya*, and *P. heterochaetosa*. A new name, *Pionosyllis hartmannschroederiae*, is proposed for *Typosyllis* (*Langerhansia*) *longisetosa* Hartmann-Schröder, 1990 as this is junior homonym of *Pionosyllis longisetosa* (Hartmann-Schröder, 1965).

Additionally, five species are new records for Australia: *Odontosyllis graveleyi* Fauvel, 1930; *Opisthodontia morena* Langerhans, 1879; *Pionosyllis corallicola* Ding & Westheide, 1997; *Streptodontia pterochaeta* (Southern, 1914) and *Syllides japonicus* Imajima, 1966. A discussion of the reproduction and systematics of the subfamily is given.

SAN MARTÍN, GUILLERMO, & PAT HUTCHINGS, 2006. Eusyllinae (Polychaeta: Syllidae) from Australia with the description of a new genus and fifteen new species. *Records of the Australian Museum* 58(3): 257–370.

This is the second contribution to the Australian Syllidae, based on the large collections housed in the Australian Museum from all around Australia, and revision of material collected and described by Hartmann-Schröder (1979–1991). The material examined was collected predominantly

from southern Australia, and no material was examined from north of 14°S on either the west or east coast of Australia. This paper also summarises material already published by San Martín (2002, 2005) and San Martín & López (2003). A general introduction to the family Syllidae is given by

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