

## The Polycirrinae (Polychaeta: Terebellidae) from Australia

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**ABSTRACT.** The polycirrine fauna of Australia comprises four genera and 22 species. These are described, and a key to the genera and Australian species are provided. Eleven new species are described: *Hauchiella renilla* n. sp., *Lysilla laciniata* n. sp., *L. bilobata* n. sp., *L. jennacubinae* n. sp., *Polycirrus bicrinalis* n. sp., *P. disjunctus* n. sp., *P. nephrosus* n. sp., *P. parvus* n. sp., *P. paucidens* n. sp., *P. tessellatus* n. sp. and *P. variabilis* n. sp., and the following new combinations, *Amaeana apheles* (Hutchings) and *Polycirrus octoseta* (Hutchings). A full description of all Australian species of this subfamily is given except when a recent full description is available. Comments are made on the variety of characters which have been used to describe species of *Polycirrus* and the value of these characters.

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The Polycirrinae recorded from Australia prior to 1979 are listed by Day & Hutchings (1979) and include six species belonging to four genera. In 1984 we began a revision of the family Terebellidae (Hutchings & Glasby, 1986, in press), and by examining all the collections of terebellids housed in Australian Museums we have considerably expanded the polycirrine fauna of Australia. In this paper we describe 11 new species and synonymise the genus *Litancyra* Hutchings with the genus *Polycirrus* Grube.

The sizes of animals examined were measured as total body length excluding tentacles, maximum body width excluding notopodia, and the number of body segments. The Australian distribution of each species is indicated at the end of each species account, and exact localities are shown in Fig. 12. In cases where species are recorded from outside Australia, all existing records are indicated.

The following abbreviations have been used.

AHF Allan Hancock Foundation, Los Angeles  
AM Australian Museum, Sydney  
BMNH British Museum Natural History, London  
CSIRO Commonwealth Scientific and Industrial Research Organisation, North Beach, Perth

HZM Zoologisches Institut und Zoologisches Museum der Universität, Hamburg  
NMV National Museum of Victoria, now Museum of Victoria  
NMW Naturhistorisches Museum, Wien  
NSWSF New South Wales, Department of Agriculture, Fisheries Division  
QM Queensland Museum, Brisbane  
USNM National Museum of Natural History, Smithsonian Institution, Washington  
UZM Universitets Zoologiska Museum, Uppsala  
WAM West Australian Museum, Perth  
ZMA Zoölogisch Museum, Amsterdam  
ZMB Zoologisches Museum, Museum für Naturkunde der Humboldt — Universität, Berlin  
ZMO Zoologisk Museum, Oslo

### Polycirrinae (Malmgren)

Polycirridae Malmgren, 1865: 390.—Caullery, 1944: 189-191.  
Polycirrinae Hesse, 1917: 219.

**Description.** Expanded tentacular membrane. Branchiae absent. Notopodia if present with capillary