

## Review of the Types and Key to the Species of *Eunice* (Eunicidae: Polychaeta) from the Australian Region

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**ABSTRACT.** Nineteen species of *Eunice* have been described from Australia, New Zealand and adjacent areas. The types of these species are redescribed and illustrated. Of the 19 species, two can no longer be recognized and no types are available. These two species, *E. gaimardi* and *E. quoya*, both described by Quatrefages (1866), are here considered indeterminable. A key to all species recorded from the area is given.

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About 30 species of *Eunice* have been identified from Australia and New Zealand (Day & Hutchings, 1979: 114-116); of these Day & Hutchings (1979) recognized 23 as valid. Nineteen species were originally described from Australia and New Zealand (cf. Hartman, 1959, 1965); the remaining species were originally described from other areas and subsequently recorded from New Zealand and Australia. Some taxa originally named from New Zealand and Australia that are often considered synonymous with other, widespread species, have been recognized as distinct in this paper. This brings the total known species from the region back up to 30. Most species of *Eunice* were described before the turn of the century, and have remained poorly known. This paper updates the description of all species originally named from Australia and New Zealand for which types were available. A complete treatment of the material deposited in the Australian Museum is in preparation, but cannot be completed until a revision of types of all species of *Eunice* has been performed. The world-wide revision will take several years to complete; members of the genus are important in ecological studies and a separate paper covering the species from this region will be useful to ecologists. A detailed discussion of the interrelations within *Eunice* must be postponed until all described species have been reviewed.

Standard illustrations and descriptions are given for all taxa available for examination and the separation

from related taxa is indicated. A key to all species currently recognized from the area is given. The character-set used to separate the species was discussed in detail by Hartman (1944) and Fauchald (1970); no additional characters have been added here.

Synonymies include only those that concern the type species examined. The often very brief original descriptions, usually without illustrations, has resulted in a very large number of incorrectly identified specimens. Without a complete review of the material on which these records were based, such synonymies would be more hindrance than help.

Scalemarks are 1 mm for all illustrations, except in all setal drawings in which the scalemarks are 0.1 mm.

### ABBREVIATIONS

AM	Australian Museum, Sydney
BM(NH)	British Museum (Natural History), London
CM	Canterbury Museum, Christchurch
MNHN	Museum nationale d'Histoire Naturelle, Paris
MPW	Museum Przdnicze, Wroclaw
ZMH	Zoologisches Institut und Zoologisches Museum der Universitet, Hamburg
ZMB	Museum für Naturkunde, Berlin.