

# THE ALPHEID SHRIMP OF AUSTRALIA

## Part I: The Lower Genera

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Figures 1-19.

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*This study is dedicated to the memory of our son, Alan Conrad Banner, who, while serving in the United States Peace Corps, was killed in a shark attack at Aliépata, Western Samoa, on 15th April, 1972. At the age of 25, Alan was training to become a marine biologist as he wished to contribute to the development of the potential tropical marine fisheries to aid the island peoples of the Pacific.*

### SUMMARY

This is the first section of a three-part monograph on the alpheid shrimp of Australia. The study is based upon a collection of 5,000 to 6,000 specimens, in part on loan from various institutions and individuals and in part collected by the authors. For each species recognitional characteristics are described and depicted, notes are given on taxonomy, variation, and biology, and the Australian and world distribution is listed. The present paper deals with lower genera; the future two papers will deal with *Synalpheus* and *Alpheus* respectively.

This paper discusses the following genera and species, those species marked with an asterisk being either new species or new records for the Australian continent:

\**Automate dolichognatha* De Man

\**Athanas areteformis* Coutière

*Athanas djiboutensis* Coutière

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- \**Athanas japonicus* Kubo
- \**Athanas locincertus* sp. nov.
- \**Athanas dimorphus* Ortmann
  - Athanas haswelli* Coutière
  - Athanas granti* Coutière
- \**Athanas ornithorhynchus* sp. nov.
- \**Athanas sibogae* De Man
- \**Athanas dorsalis* (Stimpson)
  - Athanas indicus* Coutière
- \**Aretopsis amabilis* De Man
- \**Salmoneus tricristatus* Banner
  - Alpheopsis trispinosus* (Stimpson) [neotype established]
- \**Alpheopsis undicola* sp. nov.
- \**Alpheopsis equalis* Coutière
- \**Alpheopsis yaldwyni* sp. nov.
  - Betaeus australis* Stimpson [neotype established]
- \**Racilius compressus* Paulson

In addition to these records of new species and neotypes, we have placed the following species in synonymy:

- Automate gardineri* Coutiere (= *A. dolichognatha* de Man)
- Athanas setoensis* Kubo (= *A. dimorphus* Ortmann)
- Athanas dimorphus seedang* (= *A. dimorphus* Ortmann)
- Aretopsis aegyptica* Ramadan (= *A. amabilis* de Man)

We have accepted *A. sibogae* as the proper name for *A. parvus*, based on page priority (see Banner and Banner, 1960 and Miya and Miyake, 1968).

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