

The Alpheid Shrimp of Australia

Part 2: The Genus *Synalpheus*

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Figures 1-29.

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SUMMARY

This is the second section of a projected tripartite study on the shrimp of the family in Australian waters; the first section (Banner & Banner, 1973), dealt with the lower genera, and contained also keys to the genera and locality lists for the entire collection; the third section will be confined to the genera *Alpheus*, *Metalpheus* and *Batella*, with notes on the related family Ogyrididae in Australian waters, and will also contain the bibliography for the series.

This study of the genus *Synalpheus* is based upon 1,437 separate specimens on loan from various Australian museums and other institutions and our personal collections. This section discusses the following species, with those which are new species or subspecies and those which are new records to Australian waters being marked by an asterisk.

- **Synalpheus carinatus* (De Man)
- **Synalpheus tropidodactylus* sp. nov.
- Synalpheus comatularum* (Haswell)
- Synalpheus stimpsoni* (De Man)
- **Synalpheus quadriarticulatus* sp. nov.
- **Synalpheus pescadorensis* Coutière
- **Synalpheus sciro* sp. nov.
- **Synalpheus bituberculatus* De Man
- **Synalpheus harpagatrus* sp. nov.
- **Synalpheus theano* De Man
- Synalpheus neptuntus neptunus* (Dana) [subspecies designated]
- **Synalpheus neptunus germanus* subsp. nov.
- **Synalpheus demani* Borradaile
- **Synalpheus nilandensis* Coutière

- **Synalpheus heroni* Coutière
- Synalpheus fossor* (Paulson)
- Synalpheus haddoni* Coutière
- Synalpheus coutierei* Banner
- **Synalpheus bispinosus* De Man
- **Synalpheus ancistrorhynchus* De Man
- **Synalpheus lophodactylus* Coutière
- **Synalpheus hastilicrassus* Coutière
- Synalpheus neomeris* (De Man)
- **Synalpheus streptodactylus* Coutière
- Synalpheus pococki* Coutière
- **Synalpheus iocosta* De Man
- Synalpheus charon* (Heller)
- **Synalpheus gracilirostris* De Man
- **Synalpheus echinus* sp. nov.
- Synalpheus tumidomanus* (Paulson)
- **Synalpheus paraneomeris* Coutière

We have placed the following species and subspecies in synonymy:

- S. stimpsoni* (De Man) synonyms:
S. amboinae (Zehntner); *S. brucei* Potts; *S. striatus* Kubo.
- S. fossor* (Paulson) synonyms:
A. sp. variatas De Man; *S. bakeri* Coutière; *S. bakeri stormi* De Man.
- S. hastilicrassus* Coutière synonyms:
S. acanthitelsonis Coutière; *S. hastilicrassus acanthitelsoniformis* De Man
- S. neomeris* (De Man) synonym:
S. gravieri Coutière
- S. streptodactylus* Coutière synonym:
S. streptodactylus hadrungus Banner & Banner
- S. charon* (Heller) synonym:
S. prolificus (Bate)
- S. tumidomanus* (Paulson) synonym:
S. maccullochi Coutière; *S. anisocheir* Stebbing

Fourteen nominal species and subspecies have been reported from Australian waters; of these, we have been able to confirm 12, but we have placed 3 of the 12 in synonymy. Of the remaining two, one, *S. haddoni* Coutière, we have carried on our lists although it is not represented in the present collections; the other, *S. latastei* Coutière (1909), we could not confirm and, as it was listed with doubts by the original author, we suggest that the listing was in error.

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