

## Redescription of *Hymenopenaeus obliquirostris* (Crustacea, Decapoda, Penaeoidea, Solenoceridae) and descriptions of two new species of *Hymenopenaeus* from the Indo-West Pacific

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### Abstract

*Hymenopenaeus obliquirostris* (Bate, 1881), a relatively poorly known species, is redescribed, figured and compared with *H. halli* Bruce, 1966. Two other species of *Hymenopenaeus*, *H. methalli* from the southwest Pacific and *H. fallax* from Hawaii, are described as new. All these species are closely related to one another. They are distinguished essentially by the presence or absence of a postrostral carina, the presence or absence of a fixed spine on the merus of the first pereopods, and the shape of parts of the thelycum and petasma.

**Key words:** Crustacea, Decapoda, Penaeoidea, Solenoceridae, *Hymenopenaeus*, new species, Indo-West Pacific

### Introduction

Since 1978, the Centre IRD (ex ORSTOM) of New Caledonia has conducted a study of the bathyal fauna of the southwest Pacific. Thus thousands of dredges and trawls have been made from the Chesterfield Islands east into Polynesia, resulting in a collection of very great diversity and richness.

Then in 2002 Australian and New Zealand scientific bodies organised a joint cruise to collect deep sea fauna of the Norfolk Ridge and the Lord Howe Rise. This was named NORFANZ and took place in April and May, 2003. This also resulted in a collection of great diversity and one of us (W.D.) was invited to study the collection of penaeoid shrimp.