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## Tanaidaceans from Brunei, IV. The Families Kalliapseudidae, Pagurapseudopsidae, Parapseudidae and Apseudidae (Crustacea: Peracarida: Tanaidacea: Apseudomorpha), with descriptions of a new genus and six new species

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### Abstract

Apseudomorph tanaidaceans from recent samples of the South China Sea benthos off Brunei have been examined. The habitats were sandy substrata from between 5 and 90 m depth. Fourteen species of the four families considered here were discovered. A new species of *Tanapseudes* is described. The distribution of *Phoxokalliapseudes gobinae* is analyzed. *Biropalostoma goofi* is recorded for the first time in Brunei waters. One new species of the Apseudidae (in the genus *Bunakenia*) and four new species of the Parapseudidae (one each in the genera *Platylicoa* and *Pakistanapseudes*, and two in a new genus *Actenos*, of the subfamily Pakistanapseudinae) are described. The genus *Platylicoa* is moved to the Pakistanapseudinae, and the genus *Hainanius* is returned to the Parapseudidae (Parapseudinae). *Apseudes tenuicorporeus* is moved from *Biropalostoma* to the new pakistanapseudin genus described herein.

**Key words:** Tanaidacea, Pagurapseudidae, Kalliapseudidae, Parapseudidae, Apseudidae, *Actenos*, *Aponychos*, *Apseudopsis*, *Bilobatus*, *Biropalostoma*, *Bunakenia*, *Mendamanus*, *Pakistanapseudes*, *Pagurapseudopsis*, *Phoxokalliapseudes*, *Platylicoa*, *Tanapseudes*, South China Sea

### Introduction

This paper is the fourth on the South China Sea tanaidacean fauna of the waters off Brunei. Recent benthic surveys in the region, associated with environmental impact assessments in relation to offshore hydrocarbon exploration, have generated extensive tanaidacean material. The current analyses are based on some 120 samples taken from between 5 and 90 m depth. The material is being analyzed taxonomically by higher taxon (family, to date).

The previous papers (Bamber 1999; Bamber *et al.* 2012; Bamber & Marshall in press) have demonstrated a diverse tanaidacean community there, with a particular dominance of apseudomorphan species. Indeed, Bamber (1999) found eight tanaidacean species in a total of 141 species of the macrobenthos, forming a significant proportion of the macrofaunal community at the investigated site (~60 m depth), only being outnumbered (at the ordinal rank) by ampeliscid amphipods. Three of these species ranked in the top 15 species of the fauna by numerical dominance, the apseudid *Bilobatus gallardoi* (Shiino, 1963) ranking third, the kalliapseudid *Phoxokalliapseudes gobinae* (Bamber, 1999) ranking eighth and the parapseudid *Platylicoa pectinis* (Bamber, 1999) fourteenth.

Of the thirteen species of tanaidacean recorded so far off Brunei, representing ten genera and six families, eight species and three genera are presently endemic to these waters (two of these occurring off the adjacent coast of Sabah, see Bamber & Sheader 2005). Bamber & Marshall (in press) described the sphyrapodid species. The present paper analyzes recent kalliapseudid, pagurapseudid, apseudid and parapseudid material.

The family Kalliapseudidae Lang, 1956 was most recently and comprehensively reviewed by Drumm & Heard (2011), who also discussed some of the species found off the South China Sea coast of Borneo, and who defined valuable criteria for the taxonomic analysis of taxa in this family. A new species of *Tanapseudes* Băcescu, 1978 is described in the present paper. As reasonably extensive material of *Phoxokalliapseudes gobinae* was collected, the opportunity was taken to analyse its distribution in this part of the South China Sea (its type locality).

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