

## **First Records of Meiobenthic Ectinosomatids (Crustacea: Copepoda: Harpacticoida) from Sarawak Coastal Waters, Borneo, Malaysia**

\*Fatimah A'tirah Mohamad<sup>1</sup>, Shabdin Mohd. Long<sup>1</sup> and  
Awangku Shahrir Naquiddin Awang Suhaili<sup>2</sup>

<sup>1</sup>Faculty of Resource Science and Technology, Universiti Malaysia Sarawak,  
Kota Samarahan, 94300, Sarawak, Malaysia.

<sup>2</sup>Sarawak Museum Department, Annex Building,  
P. Ramlee Road, 93400 Kuching, Sarawak.

\*corresponding author  
amfatimah@unimas.my

### **ABSTRACT**

The present study was the first taxonomy work conducted to record meiobenthic Ectinosomatids along Sarawak coastal waters. The coastline of Sarawak stretched about 1035 km long and contains an extensive continental shelf area, areas of high biological productivity and a high marine coastal biodiversity. This survey yielded several specimens of ectinosomatid harpacticoid copepods. The specimens represent 3 unrecorded species (*Halophytophilus fusiformis*, *Glabrotelson psammae* and *Arenosetella kaiseri*) in Sarawak waters. These species were described, illustrated and compared with their original descriptions. Some recorded species were showed minor remarks which differed slightly from the original description. Setal formulae and detailed descriptions of all species obtained are given to aid identification for references in future.

**Keywords:** Harpacticoid, ectinosomatid, intertidal

### **INTRODUCTION**

The most recent update on the taxonomical order of the Ectinosomatidae family revealed that there are 234 species/subspecies in this family, belonging to 21 legitimate genera (Wells, 2007; Kihara and Huys, 2009). Sars named this family Ectinosomidae in 1903, but Moore changed it to Ectinosomatidae in 1978, in accordance with the International Code of Zoological Nomenclature (Moore, 1978). Except for a genus of *Pseudectinosoma* Kunz (1935), ectinosomatids are mostly found in marine environments.

The taxonomic level of ectinosomatids is still in confusion due to incomplete detailed descriptions and the absence of many species of these genera (Huys *et al.*, 1996; Clément and Moore, 2007). In Malaysia, most records of meiobenthic ectinosomatids are from West Malaysia (Zaleha, 2008). However, the distribution of harpacticoids in East Malaysia, notably in Sarawak, is still in its infancy, with no previous occurrences of *Halophytophilus* or *Glabrotelson* species. Several harpacticoids specimens were discovered during a survey done throughout Sarawak's coastal waters. For example, ectinosomatid specimens representing three previously unidentified species were described, illustrated, and compared to original descriptions.