

A729      **The First Zoeal Stage of Eualus sinensis (Yu, 1931) (Decapoda, Caridea, Hippolytidae) with a Key to the Known First Hippolytid Zoeae of Korea and the Adjacent Waters**

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The first zoeae of a hippolytid shrimp that inhabits on a small tidal pool above low tidal mark, Eualus sinensis (Yu, 1931) were reared at 20°C and 33.3‰ in the laboratory. The larvae of Eualus can be distinguished from those of Lebbeus, Heptacarpus, Spirontocaris and Thoralus by having 5-9 zoeal stages,  $0 \leq R/C$  (=the ratio of the relative length of the rostrum to the carapace) < 1, rudiment of pereopods from being absent to having 4 or 5 pairs of pereopods in the first stage and exopods on pereopods 1-3 or 1-4 in late zoeal stage. The number of pereopods with exopod in late stage is constant to the known zoeae of Lebbeus (absent), Spirontocaris (pereopods 1-2) and Thoralus (pereopods 1-3). Corresponding character of Eualus is, however, more variable than that of Lebbeus, Spirontocaris and Thoralus. Moreover, the rudiment of pereopods in the first zoeae of Eualus ranges from being absent to having 4 or 5 pairs of pereopods. The first zoeae of Lebbeus and Spirontocaris have the rudiment of 5 pairs of pereopods, while those of Thoralus without the rudiment of pereopods. The genus Eualus, therefore, seems to be heterogeneous group.

A730      Five Unrecorded Species of Family Noctuidae (Insecta ; Lepidoptera) in Korea

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According to the recent publication on Noctuidae of Korea (Kononenko *et al.*, 1998), 961 species were recognized from the Korean peninsula. In the present study, based on the collections in the Center for Insect Systematics, Kangwon National University and Kyunghee University, five species of Noctuidae, are reported for the first time from the Korean peninsula as followings:

1. *Spodoptera mauritia* Boisduval
2. *Orthosia nigromaculata* (Hone)
3. *Orthosia fausta* Leech
4. *Calesia dasyptera* Kollar
5. *Fodina contigua* Wileman