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# Six species of the cumacea (Crustacea: Malacostraca)

# from the intertidal flats surrounding the Yellow Sea

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#### Introduction

The cumacean fauna currently contains more than 1200 species worldwide (Watling, 1997). Many of the habitats where cumaceans are likely to be found, such as estuaries, shallow embayments, beaches, tidal flats, and the inner continental shelf, have not yet had their cumacean fauna documented (Watling, 1997).

#### Materials and methods

Specimens examined in the present study were provided between July 1994 to July 1999 from the benthic samples collected in the tidal flats surrounding Inchon and the Yellow Sea, Korea. In the intertidal flats six replicate rectangular can corer ( $15 \times 20 \times 30$  cm) samples were taken at each station. Samples were sieved through 1.0 mm mesh screen and fixed in 10 % formalin. After examination, specimens were presented in 70 % ethanol.

#### Systematics 5 1

Order Cumacea Kroyer, 1846 Family Diastylidae Bate, 1856

#### Genus Dimorphostylis Zimmer, 1920

### 1. Dimorphostylis brevicaudata (Zimmer, 1903)

Material examined. 1年,1分, Taechong-do, Jun. 1998.

Genus Diastylis Zimmer, 1920

### 2. Diastylis paratricinta Kang and Lee, 1996

Material examined. 2年年, Kanghwa-do, Nov. 1997; 4年年, Changbong-do, Jul. 1999; 6年年, Ulwang, Jul. 1997; 11年年, Tokkyo, Jul. 1997; 15年年, Shinbul, Apr. 1996; 76年年, Chokchon, Jul. 1994; 5年年, Chokchon, Jul. 1997; 16年年, 5含含, Songdo, May 1995; 10年年, Taebu, Mar. 1998; 1年, Yonghung-do, Jul. 1999.

### 3. Diastylis inplicata Park and Hong, 1999

Material examined. 1年, Taebu, Mar. 1998; 1年, 2含含, Chokchon, Jul. 1994. Family Leuconidae Sars, 1878

Genus Nippoleucon Watling, 1991

### 4. Nippoleucon hinumensis (Gamo, 1967)

Material examined. 4千千, Shinbul, Apr. 1996; 1千, Songdo, May 1995.

Family Bodotriidae Scott, 1901 Subfamily Bodotriinae Hale, 1944

Genus Bodotria Goodsir. 1843

# 5. Bodotria ovalis Gamo, 1965

Material examined, 17, Taechong, Jun. 1998.

## 6. Bodotria sp. new species

Material examined. 26早早, 1含, Taechong-do, Jun. 1998.

Remarks. Bodotria sp. nov. is perhaps nearest to B. ozolinshi, which it resembles in general form and in the shape of two longitudinal folds on the carapace. However, the new species may be distinguished by the following differences from B. ozolinshi: (1) the length of the pseudorostral lobes is about as long as the ocular lobe of the both sexes in B. ozolinshi. However, in the new species, the pseudorostral lobes are never prominent and meeted in front of the ocular lobe: (2) the uropod endopods of B. ozolinshi lack the serrations on the inner margin, in while those of Bodotria sp. nov. are distinctly serrated: (3) the second longitudinal fold on the carapace does not reach at anterior of the carapace in both sexes of B. ozolinshi, but that fold of Bodotria sp. nov. is clearly expanded to anteriorly.

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