

Distribution of Genus *Archaeomysis* (Crustacea: Mysidacea) in Korean water

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Introduction

Genus *Archaeomysis* was first established by Czerniavsky(1882) for *Archaeomysis grebnitzkii*, found in the stomach of gadoid fish caught in the Bering Sea. Since Czerniavsky's (1882) brief description the genus *Archaeomysis* had been considered to include 3 species: *A. grebnitzkii*, *A. kokuboi* and *A. maculata*. But this genus has remained unsolved about the taxonomic position of the species due to brief and insufficient original description and figures.

Jo(1991) reported 5 species: *A. grebnitzkii* Czerniavsky, *A. kokuboi* Ii, *A. naoyoshii* Jo, *A. vulgaris* (Nakazawa) and *A. japonica* Hanamura, Jo and Murano. Recently the new two species was described by Hanamura(1997): *A. ochotensis* and *A. articulata*.

In Korean waters genus *Archaeomysis* include 5 species: *A. grebnitzkii* Czerniavsky, *A. kokuboi* Ii, *A. vulgaris* (Nakazawa) and *A. japonica* Hanamura, Jo and Murano. *A. articulata* Hanamura. These species occurs in the swash zone of the exposed open sandy beaches.

Ma (1988) redescribed *A. kokuboi* and *A. grebnitzkii* based on the samples collected in the southern and the eastern coasts of the Korean peninsula, and Jo and Ma (1996) reported 3 species: *A. grebnitzkii* Czerniavsky, *A. vulgaris* (Nakazawa) and *A. japonica* Hanamura, Jo and Murano in West coast of Korea.

According to these taxonomical studies it was needed to reclassify the mysids of the genus *Archaeomysis* and to clarify their distributional range in the Korean waters. The aim of the present study is to give the distributional ranges of 5 species of the genus *Archaeomysis* in the Korean waters.

Materials and Methods

Samples were collected from the coast of Korea from 1986 to 2001 with a dip net, a sled net and plankton nets. Mysids obtained were immediately fixed 8% buffered formalin on the seashore and washed in distilled water before preserved in 70% ethyl alcohol in the laboratory.

Results

1. *Archaeomysis kokuboi* Ii, 1964.

Materials examined. Prov. Kyeong-buk, Younghae, May 1990, 105 specimens; Prov. Kyeong-buk, Wolpo, May 1990, 89 specimens; Prov. Kyeong-buk, Songdo, June 1990, 121 specimens; Prov. Kyeong-nam, Ilsan, June 1990, 46 specimens; Prov. Kyeong-nam, Ilkwang, Sept. 1986, 89 specimens; Pusan city, Songjeong, May 1991, 250 specimens; Pusan city Haewundae, May 1985, 112 specimens; Pusan city, Kwanganri, May 1985, 58 specimens; Pusan city, Nakdong estuary, Sept. 1987, 251 specimens.; Koje, Kuzora, May 1986, 255 specimens.

2. *Archaeomysis grebnitzkii* Czerniavsky, 1882.

Materials examined. Prov. Kyonggi, Paengnyongdo, May 1986, 10 specimens; Prov. Chonnam, Youngkwang, Aug. 1986, 27 specimens; Prov. Chonnam, Tocodo, Oct. 1986, 5 specimens; Prov. Chonnam, Pigumdo, Oct. 1986, 11 specimens.

3. *Archaeomysis japonica* Hanamura, Jo and Murano, 1996.

Materials examined. Prov. Chonnam, Sohuksando, July 1986, 11 specimens

4. *Archaeomysis vulgaris* (Nakazawa, 1910).

Materials examined. Prov. Kyonggi, Paengnyongdo, May 1986, 6 specimens; Prov. Chonnam, Tochodo, Oct. 1986, 14 specimens; Prov. Chonnam, Pigumdo, Oct. 1986, 47 specimens; Prov. Chungnam, Hagampo, Oct. 1986, 57 specimens; Prov. Chungnam, Malipo, Oct. 1986, 43 specimens.

5. *Archaeomysis articulata* Hanamura, 1997.

Materials examined. Prov. Kyungbuk, Younghae, May 2001, 56 specimens.

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