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Population structure and life history of *Neomysis nigra* Nakazawa, 1910 (Crustacea, Mysida) in Jeju Island, Korea

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Population structure and life history of a mysid *Neomysis nigra* Nakazawa, 1910 were studied in Jeju Island, Korea. N. nigra was monthly collected from a shallow embayment of Jeju Island from May 2013 to May 2014. Temperature and salinity were measured during the sampling. Carapace length (CL) was measured. Life stages were divided into six categories and embryos in the marsupium were classified by developmental stages. Water temperatures ranged from -0.27 to 35.67°C during the study period. CL of females was larger than males. The mean CL of adults was negatively correlated with water temperature. CL in winter and spring were larger than those in summer and autumn. Brooding females and juveniles were found all year round. The abundance of juvenile was relatively higher in May, July, December and February than that of other months. The number of embryos in marsupium increased with increasing female size. In conclusion, the present study suggests that the populations of *N. nigra* have four major spawning groups in a year and reproduce all year around.

Key words: Population structure, Life history, Water temperature, Jeju Island, *Neomysis nigra*

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