

Z 119 **Annual Cycle of Gonadal Development of *Moroco lagowskii* and *M. oxycephalus* in Korea**

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To study of the reproductive annual cycles of the two freshwater fishes, *Moroco lagowskii* and *M. oxycephalus*, we investigated the GSI(gonadosomatic index) cycles and the histological analysis of their testes and ovaries from April 1998 to March 1999. The GSI cycles of two species were similar. It seems that climatic condition influences developmental cycle. In spring the gonad weights of both species were significantly decreased and reached to lowest GSI in late Summer. Gonads of each species started growing up together with oogenesis and spermatogenesis developments in Fall and they persisted in constant GSI in Winter. GSI began to increase again and became fully matured ovaries or testes in early Spring. In the results of GSI cycles and histological analysis, we found that their breeding season starts from middle April to early May.

Z 120 **New Records of Two Phanerozoan Asteroids (Asteroidea: Echinodermata) in Korea**

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Some asteroids were collected at a depth of 30m in Chejudo Island, Korea. Of which two species were identified as *Luidia maculata* Müller et Troschel, 1842 belonging to Family Luidiidae, Suborder Paxillosida and *Linckia laevigata* Linnè, 1758 belonging to Family Ophidiasteridae, Suborder Valvatida. These species are turned out to be new to the Korean fauna and redescribed on the morphological characteristics with illustrations.