



The Reproduction Properties of *Serranus cabrilla* (L., 1758) and *Serranus hepatus* (L., 1758) from Izmir Bay

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Abstract

In this study, reproduction and some biological aspects of *Serranus cabrilla* (comber) and *Serranus hepatus* (brown comber) from Izmir Bay were investigated. The fish material was collected between February 2007 and September 2008 during demersal trawl surveys carried out by R/V K. Piri Reis which is operated by Institute of Marine Sciences and Technology of DEU. Totally, 554 females and 340 hermaphrodite *S. cabrilla* specimens, and 443 females and 2070 hermaphrodite *S. hepatus* specimens were examined. The observed reproduction periods and first maturity lengths for *S. cabrilla* were between March-May and 129 mm fork length, and for *S. hepatus* March-September and 77 mm total length. The mean batch fecundity were found 2869 and 587 eggs for *S. cabrilla* and *S. hepatus*, respectively. Fork lengths of *S. cabrilla* ranged between 95-210 mm and total lengths of *S. hepatus* ranged between 63-119 mm. Both species showed negative allometric growth. Length-weight relationship changed in sampling periods and for gender for both species.

Keywords:

Serranus cabrilla, *Serranus hepatus*, reproduction, hermaphroditism
