

Natural and Engineering Sciences

Abstracts Book of International Grouper Workshop, 07-08 October 2016, Bodrum, Turkey.

Length-Weight Relationships of Two Groupers from Southern Aegean Sea, Turkey Halit Filiz*, Gokcen Bilge, Burak Ali Cicek, Mehmet Ant Turkmen, Ali Fuat Canbolat

Muğla Sıtkı Koçman University, Faculty of Fisheries, Muğla, Turkey.
Eastern Mediterranean University, Faculty of Arts and Sciences, Famagusta, North Cyprus.
32128 Str., Mustafa Kemal dist., Ankara, Turkey
Hacettepe University, Biology Department, Ankara, Turkey.
*halit.filiz@mu.edu.tr
Phone: +90.252.2111895

Abstract

In this study, length-weight relationships (LWRs) were calculated for *Epinephelus aeneus* (Geoffroy Saint-Hilaire, 1817) [n= 16; 17.0-36.8 (26.7±6.3) cm TL, and 60.6-728.3 (265.4±205.5) g] and *Mycteroperca rubra* (Bloch, 1793) [n= 12; 20.0-32.0 (27.1±4.9) cm TL, and 110.8-362.9 (245.9±88.0) g)] specimens collected seasonally via commercial gill-net (30 mm mesh size, 8 m height, and 500 m length) vessel (F/V ILKYAZ, 11.3 m, 135 HP) between February and November 2013 from Akbük Cove (Gökova SEPA, southern Aegean Sea). LWR equations were calculated as follow: W= $0.0161*L^{2.91}$ (R²= 0.96; C.I. of b=0.42) for *E. aeneus*, and W= $0.2872*L^{2.04}$ (R²= 0.87; C.I. of b=0.70) for *M. rubra*. According to Fishbase, only five LWR studies existed for *E. aeneus* (n_{min} = 9, n_{max} = 36, n_{min} = 2.85, n_{max} = 3.58), and only one LW study for *M. rubra* (n=1, n_{max} = 3.0). Thus, the results provided in this study could serve as a useful tool in future studies in the wider study area and as a future reference for comparisons of similar parameters estimated in other Mediterranean regions for these two grouper species.

Keywords:

Epinephelus aeneus, Mycteroperca rubra, Gökova SEPA, No Fishing Zone, No Take Zone