

## عنوان مقاله:

Changes in length-weight relationship and condition factor of Talang queenfish (*Scomberoides commersonianus*) in the north-west Persian Gulf

## محل انتشار:

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## خلاصه مقاله:

The present study, which was conducted on *Scomberoides commersonianus* as one of the commercially important fishes of Carangidae, seeks to investigate changes of length-weight relationships in different sexes, seasons and length classes and to calculate condition factor of Talang queenfish. In this study, 563 specimens (292 males, 247 females, and 24 of unknown sex) were collected from the north-west of the Persian Gulf from Oct. 2011 to Jan. 2013. Length-weight relationships and condition factor were determined for each sex in four length classes within different seasons. In general, the growth pattern in this fish was negatively allometric and the length-weight relationship in combined sexes amounted to  $W=2.9109FL-1.8424$ . The growth pattern of combined sexes was negatively allometric in spring and autumn and isometric in summer and winter. Also, growth pattern was positively allometric in 8-31 cm class, negatively allometric in the 31-54 cm and 54-77 cm classes and isometric in the 77-100 cm class among all specimens. Also, the condition factor in males exceeded that of females in spring, autumn and winter; however, it was greater in females than in males during summer. In this season, females were in better condition owing to an increase in the weight of ovaries. The results demonstrate that growth pattern and condition factor vary in different seasons, lengths and sexes probably because of change in feeding intensity and the time of reproduction.

## کلمات کلیدی:

*Scomberoides commersonianus*, Length-weight relationship, Condition factor, Persian Gulf

## لینک ثابت مقاله در پایگاه سیویلیکا:

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