
Scholars Research Library

-
- [A-Z Journals](#)

[Scholars Research Library](#)

- [Home](#)
- [Editorial Team](#)
- [Articles & Issues](#)
[Articles In press](#) [Current Issue](#) [Archive](#)
- [Guidelines](#)
- [Submit Manuscript](#)
- [Citations](#)
- [Open Access Policy](#)
- [Contact](#)

Annals of Biological Research

Abstract

[Aging and Morphology of otolith in *Barbus bracycephalus caspius*](#)

[and B. capito in the southern Caspian Sea](#)

Author(s): Amouei, F., Abdovali, H, Valinassab, T

The aim of this study is to provide necessary information on the age, growth and sex ratio of two important cyprinids species of *Barbus brachycephalus caspius* and *B. capito* in the southern Caspian Sea located in the northern part of Iran during 2010-2011. A total of 81 specimens of both species (48 males and 41 females) were collected monthly during 2010-2011. The samples were transferred from landings to the laboratory for further biological measurements and otolith extraction. The maximum age of *B. brachycephalus caspius* was 5+ (TL= 48.3 cm) and for *B. capito* was 4+ for a fish with TL= 38.6 cm. The mean TL of sampled *B. brachycephalus caspius* and *B. capito* were 27.53 ± 6.13 and 23.38 ± 4.35 cm, respectively; and the sex ratio were 1.0: 0.95 and 1.0: 0.93, respectively. The length-weight relationship estimated for all individuals of both species were as $W=0.011TL^{2.939}$ ($R^2=0.881$) and $W=0.004TL^{3.179}$ ($R^2=0.951$), respectively. Different regressions were prepared between age and morphological measurements of fish and otolith, of which the highest correlation for *B. brachycephalus caspius* was between age and otolith weight (g) as a linear regression of $OW=0.0005Age + 0.0022$ ($r=0.854$); and for *B. capito* showed higher correlation ($r=0.955$). There was no significant correlation between morphometric measurements for both otolith and fish parameters of *B. capito* ($p > 0.05$).

- [PDF](#)

- Copyright © 2018.
- [Our Policies](#)
- [Sitemap](#)

```
$(document).ready(function() { $('#pagination-table').DataTable({ "searching": false }); });  
!function(d,s,id){var js,fjs=d.getElementsByTagName(s)[0],p=/^http:/.test(d.location)?'http':'https';if(!d.  
getElementById(id)){js=d.createElement(s);js.id=id;js.src=p+"://platform.twitter.com/widgets.js";fjs.pa  
rentNode.insertBefore(js,fjs);}}(document,"script","twitter-wjs");
```