

## Food Regime of Commercial Juvenile *Johnius bleangerii* and *Pennahia Macrophthalmus* Fishes in the Coastal Waters of Khuzestan

Atabak, Nasrin<sup>1\*</sup>; Savari, Ahmad<sup>2</sup>; Dehghan Madise, Simin<sup>3</sup>

1- M.Sc. in Marine Biology, Khorramshahr Marine Science and Technology University, Khorramshahr, Iran. Email: nasrin.atabak@gmail.com

2- Professor, Department of Marine Biology, Faculty of Marine Science, Khorramshahr Marine Science and Technology, Khorramshahr, Iran. Email: savari53@yahoo.com

3- Assistant Professor, Department of Ecology, South Iranian Aquaculture Research Center, Ahvaz, Iran. Email: s\_dehghan2002@yahoo.com

Received Date: January 2010

\* Correspond Author

Accepted Date: December 2010

---

© 2011 Oceanography All rights reserved.

### Abstract

This survey is conducted to study diets and some feeding indices of dominant and commercial Juvenile *Johnius bleangerii* and *Pennahia macrophthalmus* species in Khuzestan coastal waters. The stomach contents of 87 *Johnius bleangerii* and 75 *Pennahia macrophthalmus* individuals were analyzed and captured by shrimp trawl net every month in main fishing areas of Khuzestan province from March 2006 to December 2007. The stomach contents of 87 individuals juvenile *Johnius bleangerii* were analyzed out of which 26.4% were empty and 73.6% had food items and For 75 individual's juvenile *Pennahia macrophthalmus* 30.6% were empty and 69.4% had food items. The results of vacuity index for juvenile *Johnius bleangerii* showed the highest value and lowest value of Feeding Intensity index in December and the lowest value of vacuity index and highest value of Feeding Intensity in September and August. The results of vacuity index for juvenile *Pennahia macrophthalmus* showed the highest value and lowest value of Feeding Intensity index in November, December and April and the lowest value of vacuity index and highest value of Feeding Intensity in September. The result showed that Crustacean, Fish, Shrimp, Brachyuran and Bryozoans are the main food sources for juvenile *bleangerii Johnius* and for juvenile *Pennahia macrophthalmus* fish, shrimp, Brachyuran and Algae are the main food sources.

Keywords: Juvenile *Johnius bleangerii*, *Pennahia macrophthalmus*, Feeding, Coastal Waters, Khuzestan.

---