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Breeding biology of *Priacanthus hamrur* (Forsskal) off Mangalore Coast, Karnataka, India

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Fishes of the family *Priacanthidae* are popularly called as big eye or bull's eye. *Priacanthus hamrur* is an important deep-water inhabitant of great commercial value. High percentage of landings of *Priancanthidae* was used as raw material for surimi, sausage and other fishery by-products. Presently, it has great demand in Singapore, Thailand, Taiwan, Hong Kong and other countries. For the maturation studies, samples were collected from commercial landing centre, Mangalore. Studies on reproductive biology showed that *Priacanthus hamrur* spawns twice in a year, the spawning season extending from March to May and October to November. Based on the percentage occurrence of mature fishes in various size groups, it was inferred that male attained maturity at smaller size than female. This study will enable us to understand the spawning periodicity, cyclic morphological changes in male, female gonads and also it helps to improve stock size by enforcing fishing ban in particular season by assessing spawning periodicity.

Biography

Anjanayappa H N is a Professor and Head of the Department of Fisheries Resources and Management, College of Fisheries, Mangalore, Karnataka, India. He has 22 years of experience in teaching, research and extension in the field of Fisheries Resources and Management. His role involves principally teaching the Undergraduate (BFSc) and Postgraduate (MFSc and PhD) students, in Fisheries Resources and Management courses covering fish population dynamics and stock assessment, taxonomy of finfish and shellfish, biodiversity of finfish and shellfish, marine fishery resources, anatomy, physiology of finfish and shellfish, biology of fish, tropical fish stock assessment, Applications of fisheries models in stock assessment and Modern techniques in ichthyotaxonomy. Besides, his role also includes research work of applied nature related to fisheries resources, their abundance, distribution, assessment and management. In addition, an effective extension work in fisheries is undertaken as a tool of taking the message from lab to land. Popular articles, interviews through local electronic media, etc., are also undertaken for the benefit of fisherfolk.

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