

Biomass and CPUA Estimation and Distribution Pattern of Saurida Tumbil in the Northwest of Persian Gulf

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Abstract : It is reported on results of a trawls survey in 2011 to assess the amount of biomass and Catch Per Unit of Area (CPUA) and also to determine the distribution pattern of Synodonidae family of demersal fishes (with emphasize on great lizardfish, Saurida tumbil) as one the most important and commercial fish species in the northwest of Persian Gulf. Samples were collected at a total 65 trawl stations selected a stratified random procedure. The study area was stratified to five strata (A to E) covering the depth layers of 10-20, 20-30 and 30-50 m. The catch rates of CPUA and biomass of lizardfishes were estimated to be approximately 316.20 kg/nm², and 2902.1 tons, respectively. The highest value of biomass of Synodontids was recorded in the east of the study area, Bordkhood to Dayer (stratum D & E, approximately 1310.6 tonnes) and in depth layer of 30-50 m; and the lowest value was estimated for stratum A (West of Khuzestan Province) and in depth layer of 10-20 m. On the other hand, the highest CPUA was recorded in stratum D and depth layer of 20-30 m; and the lowest value for stratum A and 10-20 m depth. It was concluded that stratum D (namely from Bordkhood to Dayer) contains the best fishing area from the point of higher density and distribution of Synodontidae in the covering area, and from the point of depth distribution, they are found in depths more than 30 m.

Keywords : Saurida tumbil, CPUA, biomass, distribution, fishing area, Persian gulf

Conference Title : ICSRD 2020 : International Conference on Scientific Research and Development

Conference Location : Chicago, United States

Conference Dates : December 12-13, 2020