





Shrimp fisheries management in the Hormozgan Province

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Abstract:

One of the goals of shrimp fishing management in Hormozgan province is determination the Total Allowable Catch (TAC) of shrimp, which is calculating from standing stock biomass. The sampling of shrimp populations was carried out by using the trawler boats at 25 stations from the Sirik to Tula regions at depths of 2 to 20 meters monthly in 2017. Biomass was estimated by swept area method at 1428, 97, 5, 240, 124 and 191 tons for the species of Banana shrimp (Penaeus merguiensis), Green tiger shrimp (Penaeus semisulcatus), Indian white shrimp (Penaeus indicus), Jinga shrimp (Metapenaeus affinis), Peregrine shrimp (Metapenaeus stebbingi) and Kiddi shrimp (Parapenaeopsis stylifera) respectively. TAC without kiddi shrimp (which is considered as non-economic species) according to the annual 85% harvest are estimated at 1610 tons. Due to the fact that the banana shrimp makes more than 50% of the total shrimp biomass in the exploited area and with emphasis on the growth and biological value of 28 mm carapace length of the female shrimp, optimum time to start the fishing season is estimated at 11 October. In fact, based on the daily data of the shrimp fishing season, 1654 tons of shrimp were caught by 171 fishing vessels during the operation season. In order to further protect the shrimps and the survival of the breeding stock, the end time of shrimp fishing season was estimated by analyzing the decreasing trend of vessels catch on 11/22/2017. Therefore, the catch says of shrimp was 43 active fishing days.

Keywords: shrimp, Hormozgan, trawl, Persian Gulf