

عنوان مقاله:

Determination of CPUA and distribution pattern of families Haemulidae, Nemipteridae and Ariidae in the Oman Sea

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خلاصه مقاله:

This trawl survey was carried out during ۲۰۱۳ for the stock assessment of families Haemulids, Nemipterids and Ariids in the Oman Sea. Sampling was carried out at five different stratum and depths. The highest value of CPUA of Haemulidae was estimated for Pomadasys stridens in "B" stratum (۸۸۵.۷۸ kg nm-۲), for Pomadasys kaakan at depths of ۱۰-۲۰ m (۳۳۰.۳۵ kg nm-۲), and for Nemipteridae it was estimated for Nemipterus japonicus in "D" stratum (۱۰۴۲.۳۱ kg nm-۲) at ۳۰-۵۰ m depths (۱۷۳۴.۹۷ kg nm-۲), and for Ariidae, it was estimated for Netuma thalassina in the stratum B (۷۵۲.۶۴ kg nm-۲) at ۲۰-۳۰ m depths (۴۲۸.۳۳ kg nm-۲). The highest biomass for Haemulidae was estimated in stratum B (۳۲۰.۵۳ ton) at ۵۰-۱۰۰ m depths (۲۸۲.۹۸ tons), and for Nemipteridae in "D" stratum (۵۵۹.۷۲ tons) and at depths of ۳۰-۵۰ m (۶۰۴.۰۴ tons), and for Ariidae it was estimated in "B" stratum (۲۷۲.۳۵ tons) and at ۵۰-۱۰۰ m depths (۲۵۵.۱۲ ton). Based on the results obtained, the highest species diversity for Haemulids was in "A" stratum at depths less than ۵۰ m, while for Nemipterids it was similar in the total study area and different depth layers. Highest species diversity for Ariids were found in "A" and "D" strata at depth layers of ۱۰-۲۰ m and ۳۰-۵۰ m, respectively. In light of the fact that fishing efforts decreased during these years, our results illustrate that CPUA and biomass have ascending trends which indicate the relative stability of the stocks of these families.

کلمات کلیدی:

CPUA, Species diversity, Nemipteridae, Haemulidae, Ariidae, Oman Sea

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