

E 值, 定量分析其集群行为变化规律。结果表明: 闽南-台湾浅滩二长棘鲷全年月平均 \bar{E} 为 7.4409×10^8 J, 生殖期间12月到翌年3月, 其月平均 \bar{E} 为 2.4949×10^8 J, 是全年月平均 \bar{E} 的0.34倍, 鱼群集中; 4-5月, 幼鱼大量出现, 月平均 \bar{E} 为 4.556×10^8 J, 是全年月平均的0.61倍, 鱼群相对集中; 主要索饵季节6-8月, 月平均 \bar{E} 为 1.3448×10^9 J, 是全年月平均的1.81倍, 鱼群分散; 9-11月, \bar{E} 分别为 1.435×10^9 、 9.7409×10^8 、 5.769×10^8 J, 分别是全年月平均的1.93、1.31、0.78倍, 鱼群为适应水温和寻找产卵场, 在外移过程中逐渐集中。可见, 闽南-台湾浅滩二长棘鲷的生殖群体集群性最强, 其次是幼鱼群体、以适应水温和寻找产卵场为目的的群体, 而索饵群体分散。

"/> E value in each month of *P. edita* population was calculated, which used to quantitatively analyse the variation rule of schooling behavior. The results showed that the annual monthly average \bar{E} of *P. edita* population in Minnan-Taiwan bank fishing ground is 7.4409×10^8 J, in the reproduction period which from December to March of the next year, the average monthly \bar{E} is 2.4949×10^8 J, which was 0.34 times of the annual average, that meant the fish concentrated; young appeared in large numbers from April to May, and the average monthly \bar{E} was 4.556×10^8 J, which was 0.61 times of the annual average, the fish relatively concentrated; in feeding migratory months from June to August, the average monthly \bar{E} was 1.3448×10^9 J, which was 1.81 times of the annual average, the fish dispersed; \bar{E} was 1.435×10^9 , 9.7409×10^8 , 5.769×10^8 J from September to November respectively, which was 1.93, 1.31 and 0.78 times of the annual average \bar{E} ; in the transfer process, the fish population gradually concentrated in order to adapt to water temperature and look for spawning grounds. So schooling behavior of the reproductive population of *P. edita* in Minnan-Taiwan bank fishing ground was the strongest, followed by a young group and the group which need adapt to the water temperature and search for spawning grounds, while the feeding group disperse.

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闽南-台湾浅滩渔场二长棘鲷群体集群行为宏观量化与分析

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Macro-level quantification and analysis of schooling behavior of *Parargyrops edita* Tanaka in Minnan-Taiwan Bank Fishing Ground

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