

胶州湾西北部潮滩湿地大型底栖动物功能群

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Macrozoobenthos functional groups in intertidal flat of northwest Jiaozhou Bay.

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全文: PDF (578 KB) HTML (1 KB) 输出: BibTeX | EndNote (RIS) 背景资料

摘要 2009年2、5、8和11月进行了7个断面35个站位的大型底栖动物调查, 选取高潮区(A)、中潮区(B、C、D)和低潮区(E)研究了胶州湾西北部潮滩湿地大型底栖动物功能群组成及其时空变化. 调查共发现大型底栖动物71种, 主要种类为软体动物(31种)、环节动物(20种)和节肢动物(14种). 潮区A、B、C、D、E物种数分别为26、33、35、38、31. 依据食性将主要底栖动物划分为肉食者、浮游生物食者、碎屑食者和杂食者4个功能群. 各功能群物种数占总物种数的百分比由高到低依次是肉食者、浮游生物食者、碎屑食者和杂食者. 各功能群中肉食者的多样性指数最高, 杂食者最低. 各功能群的丰度、均匀度指数、多样性指数一般都是中潮区较高, 高潮区和低潮区较低. 大型底栖动物功能群的分布随潮区环境的改变而变化, 是对生境状况的综合反映.

关键词: 大型底栖动物 功能群 潮滩湿地 胶州湾

Abstract: Based on the survey of macrozoobenthos at 35 locations of 7 sections in the intertidal flat of northwest Jiaozhou Bay in February, May, August, and November 2009, three zones including high tidal zone (A), mid tidal zone (B, C, and D), and low tidal zone (E) were selected to study the functional groups of macrozoobenthos in the flat. A total of 71 macrozoobenthos species were recorded, most of which were of mollusk (31 species), polychaete (20 species), and crustacean (14 species). The species number in A, B, C, D, and E was 26, 33, 35, 38, and 31, respectively. According to their food preferences, the macrozoobenthos were classified into 4 functional groups, *i.e.*, planktonphagous, carnivorous, omnivorous, and detritivorous. The percentage of the species number of each functional group in the total species number of macrozoobenthos was in the order of carnivorous > planktonphagous > detritivorous > omnivorous. Carnivorous group had the highest species diversity index, while omnivorous group had the lowest one. Overall, the species richness index, evenness index, and species diversity index were higher in mid tidal zone and lower in high and low tidal zones. The present study showed that the distribution of macrozoobenthos functional groups varied with the environment of tidal zones, being an integrative reflection of their habitat conditions.

Key words: macrozoobenthos functional group intertidal flat Jiaozhou Bay

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. 胶州湾西北部潮滩湿地大型底栖动物功能群[J]. 应用生态学报, 2011, 22(07): 1885-1892.

. Macrozoobenthos functional groups in intertidal flat of northwest Jiaozhou Bay.[J]. Chinese Journal of Applied Ecology, 2011, 22(07): 1885-1892.

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