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农村发展一生态资源环境

深澳湾表层底质沉积物中凯氏氮和总磷的时空分布及与周边地区的比较

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摘要:

氮和磷是近海网箱养殖系统重要的生源要素之一,为探究深澳湾表层底质沉积物中氮磷等元素的分布和变化规律,于2007年和2008年对粤东深澳湾表层底质沉积物中凯氏氮和总磷的含量进行每月一次的采样调查。结果显示,表层沉积物中凯氏氮的变化范围分别为0.533-2.038 mg/g,无显著性季节差异,但空间变化很明显;总磷的变化范围为0.042-2.085 mg/g,无显著性季节差异,但2007年底质中的含量明显高于2008年,且空间差异明显。在对深澳湾进行底质采样调查的同时也对达濠高位江蓠养殖区进行了调查,同时比对其他学者对柘林湾养殖区的研究数据,发现深澳湾养殖区氮磷含量要低于以上两处养殖区,且深澳湾底质中氮磷的含量主要与人类活动的密集程度有关。

关键词: 时空变化

The spatiotemporal patterns of Kjeldhal nitrogen (TKN) and total phosphorus (TP) in the superficial deposits at Shen' ao Bay, and the comparison between Surrounding areas

Abstract:

For N and P are the one of the most important factors in near-coast cage culturing system, the research on Kjeldhal nitrogen (TKN) and total phosphorus (TP) has been conducted once a month at Shen' ao Bay in 2007 and 2008 to reveal its distributions and patterns in superficial deposits. It was showed that the fluctuation of TKN was 0.533-2.038 mg/g. The temporal fluctuation of TKN was weak and no seasonal patterns were found, but there was a significant spatial variation; It was also showed that the fluctuation of TP was 0.042-2.085 mg/g with no seasonal patterns. And a significant spatial patterns was showed. Meanwhile, a similar research was conducted at Dahao culturing area. The comparison of TKN and TP in superficial deposits of Shen' ao Bay, Dahao culturing area and Zhelin Bay (data was quoted from another paper) was conducted. It was showed that the contents of N and P in Shen' ao bay were lower than in the two areas, meanwhile its contents were correlated with human activities in Shen' ao bay.

Keywords: Spatiotemporal patterns

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