

三峡库区流域水环境保护分区

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Zoning of water environment protection in Three Gorges Reservoir watershed.

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摘要

流域内不同地域的社会经济发展水平、土地利用状况、植被覆盖程度、与水域的相对位置均对水环境质量存在显著影响.围绕水体保护的核心需求,面向流域空间范围开展水环境保护分区十分必要.本文以三峡库区为研究区,着眼于区域生态环境特征、水体压力-响应特征的空间差异性,基于生态因子叠置法、生态敏感性分析等方法,研究三峡库区水环境保护分区.分区综合考虑了水热条件、地势地貌、生态敏感性等因素,将库区划分为:1)红区,即严格保护区,总面积2924 km²,占库区的5.1%;2)黄区,即一级防护区,总面积10477 km²,占库区的18.4%;3)蓝区,即二级防护区,总面积43599 km²,占库区的76.5%.辨识了红区、黄区和蓝区不同分区的关键环境问题,并有针对性地提出各区的发展方向和在水环境保护定位.

关键词: 三峡库区 水环境保护 分区 生态敏感性

Abstract:

Regional differences in socio-economic development, land use, vegetation cover, and relative location of water body within a watershed bring about significant effects on the water environment quality of the watershed. Concerning about the core demands of water body protection, it is important and necessary to carry out zoning water environment protection for whole watershed. With a view to the spatial differences in regional characteristics of eco-environment and water body pressure-respond features, this paper studied the zoning of water environment protection in the Three Gorges Reservoir watershed, based on the methods of ecological factors overlay and ecological sensitivity analysis. The factors considered included hydrothermal conditions, terrain topography, administrative unit, and ecological sensitivity. Three regions in the watershed were zoned, *i.e.*, 1) red region, namely strictly protected region, with an area of 2924 km² and occupying 5.1% of the total; 2) yellow region, namely first class protection region, with an area of 10477 km² and occupying 18.4%; and 3) blue region, namely second class protection region, with an area of 43599 km² and occupying 76.5%. The key environmental problems of the regions were identified, and the strategies for the regions' development and water environment protection were proposed.

Key words: Three Gorges Reservoir watershed water environment protection zoning ecological sensitivity

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