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Impacts of human activities on ecosystem in mangroves

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The mangrove is an important ecosystem in the coast of tropic and sub-tropic, and there are the manifold ecosystem services in it. The major aims are that correct estimating the impacts of human activities on ecosystem services in the mangroves and insuring sustainable utilization of mangrove resources. The direct and indirect impacts of human activities on ecosystem services in the mangroves were analyzed systematically on land for the agricultural, salt industrial, urban developmental use, and for b reed aquatics, building sea walls, browse, firewood, digging marine product, dirty discharging, and tourism, and so on. The results show that the ecosystem services were harmed by human activities through the changes of mangrove eco-environment, ecosystem configuration and its biogeochemical cycle. In order to actualize the sustainable development and utilization of mangrove resources, some effective measures should be adopted to improve the eco-environment and maintain the ecosystem services. By this token, it is urgent to make clear the ecological mechanism that the ecosystem services how to keep, to circulate and to develop. The suggestion was stated in this paper.

【Key Words】 : **human activities mangroves ecosystem services sustainable development**

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