

桃竹苗海岸保護區劃設模式建立之研究

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摘要

The coastal environment is an important part of national land use planning, these areas are environmental sensitive which are located in the junction of water and land. Recently, with the increasing awareness of environmental protection, the public have gradually realized the importance of environmental protection and sustainable development. By now, the Construction and Planning Agency has produced Coastal Law (draft) in 2008 and compensated the local government for Shoreline Restoration and Landscape Improvement Projects in 2007. All of these efforts are made for “the environmental protection and resuming the natural landscapes of the coastline,” thus, to push the center government to pay attention to the sustainable development of the coastal environment.

The designation of the coastal reserve areas is mainly to implement the protection of coastal biological habitats, maintaining biological diversity, benefiting the operation of coastal environmental protection and restoration, enabling an overall plan for the protection of the environment, resources as well as land development in coastal areas. However, how to designate the reserve areas effectively is still an important issue.

This study aims at the two themes of the coastal environment and cultural landscape in Tao-Zhu-Miao region, learning from the domestic and overseas experience, combining the features of Tao-Zhu-Miao region, establishing the principles for designating the coastal reserve areas and under the condition of satisfying the goals of environmental protection and preservation of cultural assets, to protect, conserve and preserve the environment and culture assets which are mostly worthy to be protected. By the means of GIS environmental database to integrate the resources, introducing fuzzy theory and multicriteria decision analysis to perform expert questionnaires and the algorithm for conversion. Finally, based on

the importance of their spatial ranges of location, the coastal reserve areas are designated at different rates, the spaces of the resources are effectively allocated in the most suitable ways and this can be used as a reference for future studies of coastal ecology conservation.

關鍵字：Coast, Environment Resources, Geographic Information System, Coastal conservation area