THE ANALYSIS AND EVALUATION OF DYNAMIC CHANGES ON LAND USE TYPES IN ZHANJIANG CITY BASED ON GIS

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ABSTRACT

The analysis and evaluation of the change of land use degree in each county area of Zhanjiang city from 2000 to 2020 and the revelation of its development law can provide a theoretical basis for the formulation of rational land development strategy and land use overall planning, which is of great significance for regional sustainable development and regional ecological environment protection. This paper studied the dynamic change and regional difference of land use degree in Zhanjiang city, and analyzed the change status and regional difference of land use degree by using the comprehensive index model of land use degree and the dynamic model of single land use degree. The results show that the urban construction area of Zhanjiang city has increased from 2000 to 2020, indicating that the urbanization and economic development of Zhanjiang city are on the rise during this period, but the economic situation of each county-level region presents unbalanced development, and the urbanization rate is at a low level. Meanwhile, we should coordinate the relationship between ecological land and construction land, and optimize the urban land use structure from the perspective of regional differences, so as to realize the high-quality development of urban economy.

KEYWORDS: Land Classification; Geographic Information System (GIS); Land Use; Comprehensive Index of Land Use Degree; Dynamic Change