THE STUDY OF WETLAND CHANGE IN DIANBAI DISTRICT OF MAOMING CITY

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ABSTRACT

Due to the development of the economy, wetlands are usually occupied and destroyed by human beings, which makes wetland resources more and more tense. In order to further understand the changes of wetland resources in Dianbai District, Maoming City, Guangdong Province in recent years, this study using ENVI5.3, Arc GIS 10.1 software as a study tools and combined with the land use type map of Dianbai District in 2010 and 2020 to create a wetland distribution map, meanwhile, to calculated a Land Use Transfer Matrix (LUTM) for analysis the wetland changes in this area. This study concluded that, firstly, In terms of temporal and spatial changes, the wetlands in Dianbai are mainly concentrated in the southwest, northeast, south and southeast, and the changes in the middle and east are the least. Secondly, compared with 2010, the wetland area in Dianbai has increasing slightly in 2020, the reason of wetland loss may be due to man-made encroachment and global warming. Thirdly, the area of the estuary has increased a little bit and has been successfully protected. Final, the main purpose of this study is to draw people's attention to wetlands, restore and protect wetland ecosystems, as well as urging developing sustainable strategy by government.

KEYWORDS: *Wetland; Land Use Transfer Matrix (LUTM); Geographical Information System (GIS); Remote Sensing (RS); Dianbai Area*