

中国科学院地理科学与资源研究所

Institute of Geographic Sciences and Natural Resources Research, CAS

English

首 页 | 研究所介绍 | 机构设置 | 科研队伍 | 科学研究 | 合作交流 | 研究生教育 | 创新文化 | 所图书馆

.:>

今天是: 2008年4月1日 星期二

+25

站内搜索 ...

▼

0

+:>

地理学报(英文版) 2005年第15卷第2期

*:>

The application of Yangtze Estuary Tidal Wetlands Geographic Information System

作者: WANG Jun CHEN Zhenlou

Yangtze Estuary Tidal Wetlands Geographic Information System (YETWGIS) is a comprehensive software system for environ mental management and decision of Yangtze estuary tidal wetlands. Based on MapObjects components technology, Data Min ing technology, mathematical modeling method and Visual Basic Language, this software system has many functions such as displaying, editing, querying and searching, spatial statistics and analysis, thematic map compiling, and environm ental quality evaluation. This paper firstly outlined the system structure, key techniques, and achieving methods of YETWGIS, and then, described the core modules (the thematic map compiling module and environmental quality evaluation n model module) in detail. In addition, based on information entropy model, it thoroughly discussed the methods of en vironmental quality evaluation and indicators' weight calculation. Finally, by using YETWGIS, this paper analyzed the spatial distribution characteristics of Heavy Metal and Persistent Organic Pollutants (POPs) of the Yangtze estuary tidal wetlands in 2003.

Paper (PDF)

关键词: Yangtze estuary; tidal wetland; geographic information system; components technology; information entropy model doi: 10.1360/gs050204

所内链接 | 友情链接 | 联系方式 | 网站地图 |

2005 中国科学院地理科学与资源研究所 版权所有