

3S技术支持下鄱阳湖区地质构造调查分析

陈炳贵¹, 欧阳平¹, 黄梅²

1. 南昌工程学院, 南昌 330029; 2. 江西省山江湖开发委员会办公室, 南昌 330046

收稿日期 2007-1-10 修回日期 2007-4-20 网络版发布日期 2007-10-18 接受日期 2007-10-18

摘要 采取遥感 (RS) 技术对鄱阳湖区地质构造TM影像特征进行分析, 建立湖区不同断裂遥感解译标志. 利用人机交互方式解译出湖区不同断裂, 借助地理信息系统 (GIS) 和全球定位系统 (GPS) 将该区的地质构造信息和相关地质资料进行空间叠加对比和实地验证分析的基础上, 对该区地质断裂及活动性断裂构造进行深入研究和遥感影像新构造类型分区.

关键词 [地质构造研究](#), [‘3S’技术](#), [鄱阳湖区](#)

分类号 [P631](#)

DOI:

Analysis and survey for geological structure in Poyang lake area based on ‘3S’ technology

CHEN Bing-gui¹, OUYANG Ping¹, HUANG Mei²

1. Nanchang Institute of Technology, Nanchang 330029, China; 2. MRL office of Jiangxi Province, Nanchang 330046, China

Received 2007-1-10 Revised 2007-4-20 Online 2007-10-18 Accepted 2007-10-18

Abstract The TM image characters and symbols to interpret the different lines of fracture in Poyang Lake area were established through analysis for the TM image characters of geological tectonics in Poyang Lake area by using remote sensing (RS) technology. Then the different zones of fracture were interpreted through man-computer conversation based on the TM image characters and symbols of different zones of rift in TM image. Finally the geological fracture tectonics and active rift tectonics were analyzed in detail and the new zonal geological structure on TM image of Poyang area was made, according to the space analysis of overlaying the different geological tectonics information by using GIS technology and field survey as well as confirmation for the different geological tectonics in Poyang Lake area by GPS technology.

Key words [P631](#)

通讯作者:

cbg62@126.com

作者个人主页: 陈炳贵¹; 欧阳平¹; 黄梅²

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