

地理信息系统

基于ArcGIS的青藏高原生态地质环境遥感监测系统

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摘要:

青藏高原生态地质环境监测系统以ArcGIS为支撑平台,采用C/S和B/S混合模式,在空间地理基础上建立了青藏高原现代冰川雪线、河流湖泊、地质灾害、荒漠化、地质构造等多专业、多层面、多功能的生态地质环境遥感监测系统。本文重点介绍了系统功能及相关开发技术。

关键词: ArcGIS 地质环境 监测系统

THE QINGZANG PLATEAU ENVIRONMENTAL AND GEOLOGICAL INFORMATION MONITORING SYSTEM BASED ON ARCGIS

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Abstract:

The Qingzang Plateau Environmental and Geological Information Monitoring System (TPEGIMS) has two working modes, C/S and B/S. According to uniformly spatial geography benchmark, TPEGIMS with multi-specialities, multi-layers and multi-functions was set up for such objects as modern glaciers, snow lines, rivers, lakes, geological disasters, desertification and geological structures. This paper mainly describes the structure, operation environment and system functions of TPEGIMS. Multiple functions of TPEGIMS include overlapping analysis and comparison between several images, interactive interpretation, vector editing, monitoring-result variation analysis, overall evaluation and web publishing. TPEGIMS is indeed a new, useful and powerful toolkit.

Keywords: ArcGIS Geological environment Monitoring system

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