

技术应用

遥感技术在北京周边资源与环境监测中的应用

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摘要:

北京周边地区是近二十a环境退化较严重的地区, 特别是由于资源过度开发利用所引起的土地利用和土地覆被变化的生态

环境问题十分突出。以遥感技术、地理信息系统和全球定位系统技术为手段, 利用1991或1992年、2001或2002年2期的遥感影像为

基础, 辅以土地利用现状图及与生态建设等相关资料, 通过外业调查验证, 快速、准确地获取北京周边地区51个县级辖区, 总土地

面积为23万km<sup>2</sup>的土地利用现状和近10a的土地利用动态变化及与生态环境相关的土地退化, 以反映生态建设工程的实施效果, 为

北京周边地区资源合理利用和生态环境建设与规划提供了科学依据。

关键词: 遥感技术 资源与环境 土地退化 监测

THE APPLICATION OF REMOTE SENSING TECHNOLOGY TO ENVIRONMENT AND RESOURCES MONITORING IN THE PERIPHERAL AREAS OF BEIJING

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Abstract:

In the past 10-20 years, the peripheral areas of Beijing have suffered increasingly serious environmental degradation, because especially of the excessive exploitation of resources caused by land use and

the land cover change. The change of such land use types as cultivated land, grade plot, forest land, grassland,

construction land, water area and saline alkali land, and wetlands directly impacts the environmental situations

of these areas. With remote sensing technology, geographic information system technology, and global positioning

system technology as the means, the two phases of remote sensing images in 1991 or 1992, 2001 or 2002 as the

basis, and the current land use map and other related materials such as ecological construction as the

supplementary materials, the authors, through field investigation and inspection, accurately obtained the land-use

status of over 230000 km<sup>2</sup> land area all over the 51 county areas around Beijing and the land use dynamic changes

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as well as land degradation in the past 10 years associated with ecological environment and ecological

construction, which reflects the effect of ecological construction. The data obtained provide scientific basis

for the reasonable utilization of resources and the construction and planning of the ecological environment.

Keywords: Remote sensing technology Resources and environment Land degradation Monitoring

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