

在轨测试

CBERS-02B星在轨测试数据国土资源应用评价

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摘要:

以中巴地球资源一号卫星O2B星(CBERS-02B, 以下简称为O2B星)多光谱CCD数据和HR数据的2级产品为准, 按照国土资源调查与监测的相关标准与技术规范, 结合多光谱CCD和HR数据的影像质量、波段配准、几何畸变以及制图能力, 从国土资源日常性调查业务、行政性监管与执法职能出发, 对O2B星在土地资源调查与监测、地质解译、矿化蚀变异常信息提取、地质灾害调查与监测、矿产资源开发状况调查与监测、区域生态地质环境调查等领域的遥感应用特点、关注的地类与地质要素的差异等方面开展应用评价。对O2B星CCD和HR数据的国土资源调查与监测的应用能力进行了总结, 对存在的问题进行了初步分析。该项研究对指导O2B星数据的应用与后续星的研发具有重要意义。

关键词: CBERS-02B星; 遥感技术; 土地资源; 地质资源; 应用评价

AN APPLICATION EVALUATION OF THE CBERS 02B SATELLITE ON-ORBIT IMAGE DATA FOR LAND AND RESOURCES

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Abstract:

The authors evaluated the application of CBERS 02B CCD and HR image data to a series of fields such as land surveying and monitoring, geological interpretation, extraction of mineralization information, geological hazards forecast, exploitation of mineral resources, and investigation of regional ecological and geological environment by using the Grade-2 product of CBERS 02B CCD and HR image data. The evaluation was performed according to the technical standard of land surveying and monitoring in association with the quality of image data, band registration and geometric distortion and was based on the routine of land and resources surveying, administrative regulations and law enforcement. In addition, the capability of applying CBERS 02B CCD and HR image data to the surveying and monitoring of land and resources is summed up, and the existent problems are analyzed preliminarily in this paper, which seems important for the application of CBERS 02B image data and the development of satellites in future.

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Keywords: CBERS 02B satellite; Remote sensing technology; Land resources; Geological resources, Application evaluation

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