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# 遥感学报

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About the Cover

高分4号卫星长三角区域假彩色影像图

GF-4 satellite false color image of Yangtze River Delta

高分4号卫星是中国第1颗地球静止轨道高分辨率对地观测卫星,轨道高度为36000 km。卫星配置了可见近红外相机和中波红外面阵相机各一台,兼具可见光和红外线全天候成像能力,其可见光谱段分辨率为50 m,中波红外谱段分辨率为400 m,实现了高时间分辨率和较高空间分辨率的有机结合。高分4号的空间分辨率为目前中国地球静止轨道遥感卫星最高水平。

封面影像为高分4号卫星2016年3月16日获取的长三角地区影像,层次分明,信息丰富。高分4号开辟了中国地球同步轨道高分辨率对地观测的新领域,为灾害风险预警预报、林火灾害监测、地震构造信息提取、气象天气监测等业务补充了全新的技术手段,可为减灾、林业、地震、气象等应用提供快速、可靠、稳定的光学遥感数据,在环保、海洋、农业、水利等行业及区域应用也有巨大潜力和广阔空间。

GF-4 is the first geostationary orbit high-resolution earth observation satellites of China, which runs in the geostationary orbit of 36000 km. The GF-4 satellite is configured with a visible and near infrared camera and an intermediate infrared camera, with the all-weather monitoring ability of visible and infrared band. The spatial resolution of visible and near infrared camera is 50 m and spatial resolution of intermediate infrared camera is 400 m, which realizes the combination of high temporal resolution and high spatial resolution. The GF-4 satellite has the highest spatial resolution in all the Chinese geostationary orbit satellites, and the similar satellite is not available in the world. The cover image is the false color image of Yangtze River Delta, captured by GF-4 on March 16, 2016. GF-4 satellite will provide the fast, reliable, and stable optical remote sensing data for various applications, such as disaster reduction, forestry, earthquake and meteorological, which will add a new technical method for disaster risk forecast, forest fire monitoring, seism tectonic information extraction and weather monitoring. The GF-4 satellite also has a great potential and broad application space in environment protection, marine, agriculture, water conservancy and other industries and regional application.

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