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Yaogan Xuebao

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About the Cover

高分六号获取的中华人民共和国成立70周年阅兵式遥感影像

Military parade image of Tian'anmen Square on the 70th anniversary of the founding of the People's Republic of China obtained by GF-6 satellite

封面图片为高分六号卫星于 2019 年 10 月 1 日获取的中华人民共和国成立 70 周年天安门广场阅兵式的全色多光谱融合影像, 空间分辨率为 2 m。高分六号卫星是中国首颗设置红边波段并采用国产 CMOS 成像器件的多光谱遥感卫星, 搭载了 2 m 全色 / 8 m 多光谱的高分相机、16 m 的多光谱宽幅相机, 其中宽幅相机以单相机体制, 采用先进的自由曲面四反离轴光学系统设计实现超大视场成像, 幅宽为 860 km, 在同一颗卫星上实现了高分辨率和大宽幅的成像能力。高分六号卫星的发射大幅提升了行业业务应用的定量化水平, 可应用于农业生产动态监测、环境治理、森林资源监管、灾害风险调查、维护生态安全和生态文明建设以及脱贫攻坚等领域。2019 年 11 月 6 日, 中国国家航天局在地球观测组织 GEO (Group on Earth Observations) 2019 年全会开幕式上, 推出了“中国国家航天局高分卫星 16 m 数据共享服务平台 (CNSA-GEO 平台, 域名 www.cnsageo.com)”, 宣布正式将高分一号、高分六号卫星 16 m 空间分辨率数据向全球开放共享。

The cover image is the panchromatic multispectral fusion image obtained by GF-6 satellite on October 1, 2019 during the military parade in Tian'anmen Square on the 70th anniversary of the founding of the People's Republic of China, with a spatial resolution of 2 m. GF-6 satellite is the first multispectral remote sensing satellite in China with red edge spectrum segment and domestic CMOS imaging device. It is equipped with 2 m panchromatic / 8 m multispectral high-resolution camera and 16 m multispectral wide-band camera. The wide-band camera is designed with a single camera system and an advanced free-form surface four anti off-axis optical system to achieve a large field of view imaging, with a width of 860 km, can achieve high resolution and wide imaging capability on the same satellite. It has greatly improved the quantitative level of business application in the industry, and has been widely used in the fields of stabilizing grain production, rural human settlements, poverty alleviation, forest resource supervision, disaster risk investigation, maintaining ecological security and ecological civilization construction. On November 6, 2019, at the opening ceremony of the 2019 plenary session of the Group on Earth Observations (GEO), China's National Space Administration launched the "CNSA-GEO platform (Domain Name: www.cnsageo.com)", which officially opened and shared the 16 m spatial resolution data of GF-1 and GF-6 satellites to the world.

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