

遥感学报

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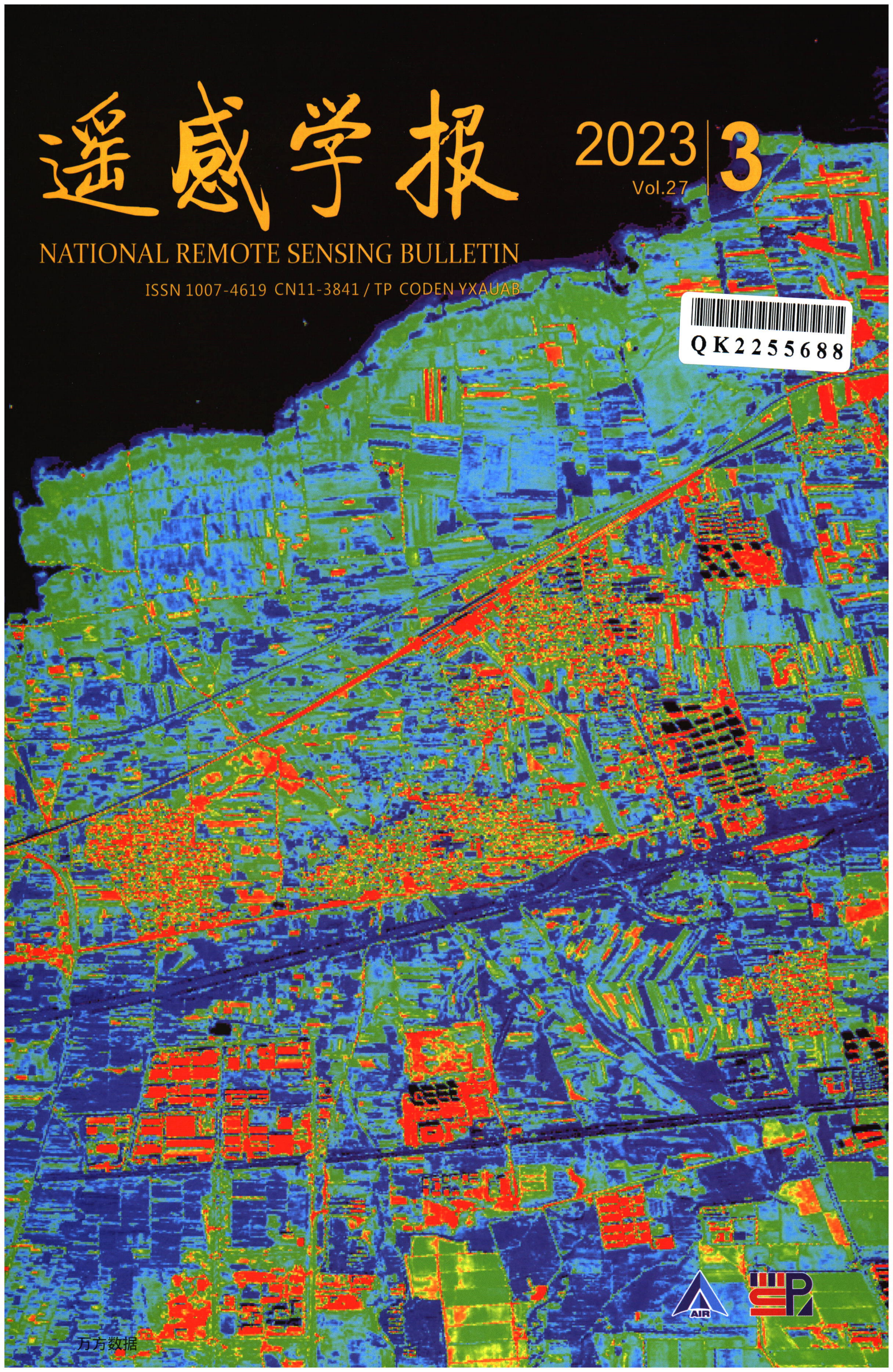
Vol.27

NATIONAL REMOTE SENSING BULLETIN

ISSN 1007-4619 CN11-3841 / TP CODEN YXAUJAB



QK2255688



百种中国杰出学术期刊

遥感学报

Yaogan Xuebao

第 27 卷 第 3 期 2023 年 3 月

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本期责任编辑:边钊

《遥感学报》网络版:www.ygxb.ac.cn

《遥感学报》官网、微信公众号、直播、视频号



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NATIONAL REMOTE SENSING BULLETIN

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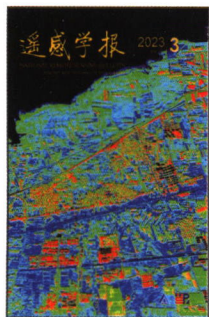
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高分一号卫星中国科学院怀柔遥感综合试验站及周边地表反照率产品影像

The land surface albedo map around the Huailai Remote Sensing Test Site derived from GF-1 satellite

封面为基于高分一号卫星 2022 年 9 月 23 日拍摄的 8 m 空间分辨率多光谱数据定量反演的地表反照率产品影像，展现了河北怀柔遥感综合试验站及周边水体，湿地，农田，林地，道路，城镇等多种典型地物表面反照率特征。反照率表征了地表对太阳入射的反射能力，图中蓝绿色到黄红色的渐变刻画了水体—湿地—植被—裸地人工建筑等由低到高的反照率空间分布特征。怀柔遥感综合试验站及周边建有国际先进的全波段多角度辐射特性观测平台和多尺度关键参量组网观测系统。2021 年—2022 年，在此处开展了高分遥感星机地综合试验。怀柔遥感综合试验站已成为高分共性产品算法研发和产品真实性检验重要基地。本期专刊的 23 篇论文展现了高分遥感共性产品技术体系、产品生成与真实性检验关键技术和应用实践等方面最新进展。

The land surface albedo map is retrieved from the 8 m-spatial-resolution multi-spectral image acquired by GF-1 satellite on September 23, 2022, covering the typical landscapes albedo features of water, wetland, croplands, forest, roads and towns. Describing the land surface reflectance ability to the solar illumination, the land covers' albedo varies from low to high as water-wetlands-vegetated covers- bared soil-artificial structures, with color changing from blue-green to yellow-red in the image. The Huailai Remote Sensing Test Site has built the internationally advanced full-spectral-covered and multi-angular radiation observation platforms and the multi-scale key parameters observation networks. The satellite-airborne-ground comprehensive experiments for GF satellites have been implemented here from the year 2021 to 2022. This site will continuously support the GF common products algorithms' developments and the products' validations. The 23 papers of the special issue show the latest progress in the technique system of remote sensing common products by GF satellites, key technologies of common product generation and validation, and application practices.

YAOGAN XUEBAO (月刊 1997年创刊)

第27卷 第3期 2023年3月25日

(Monthly, Published since 1997)

Vol.27 No.3 March 25, 2023

主管	中国科学院	Superintended	by	Chinese Academy of Sciences
主办	中国科学院空天信息创新研究院	Sponsored	by	Aerospace Information Research Institute, Chinese Academy of Sciences
主编	吴一戎	Editor in Chief		WU Yirong
编辑	《遥感学报》编辑部 北京市海淀区北四环西路19号 邮编：100190 电话：86-10-58887052 http://www.ygxb.ac.cn E-mail: nrsb@aircas.ac.cn	Edited	by	Editorial Office of National Remote Sensing Bulletin Add: P.O.Box 2702, Beijing 100190, China Tel: 86-10-58887052 http://www.ygxb.ac.cn E-mail: nrsb@aircas.ac.cn
出版	科学出版社	Published	by	Science Press
印刷装订	北京科信印刷有限公司	Printed	by	Beijing Kexin Printing Co. Ltd.
总发行	科学出版社 北京东黄城根北街16号 国内邮发代号：82-324 邮政编码：100717 电话：86-10-64017032 淘宝店铺名称：中科期刊	Distributed	by	Science Press Add: 16 Donghuangchenggen North Street, Beijing 100717, China Tel: 86-10-64017032 Taobao: Zhongke Journal
国外发行	中国国际图书贸易总公司 北京 399 信箱 邮政编码：100044 国外发行代号：BM 1002	Overseas distributed	by	China International Book Trading Corporation Add: P.O.Box 399, Beijing 100044, China

中国标准连续出版物号：ISSN 1007-4619

CN 11-3841/TP

CODEN YXAUAB

eISSN 2095-9494

定价：70.00元



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ISSN 1007-4619



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