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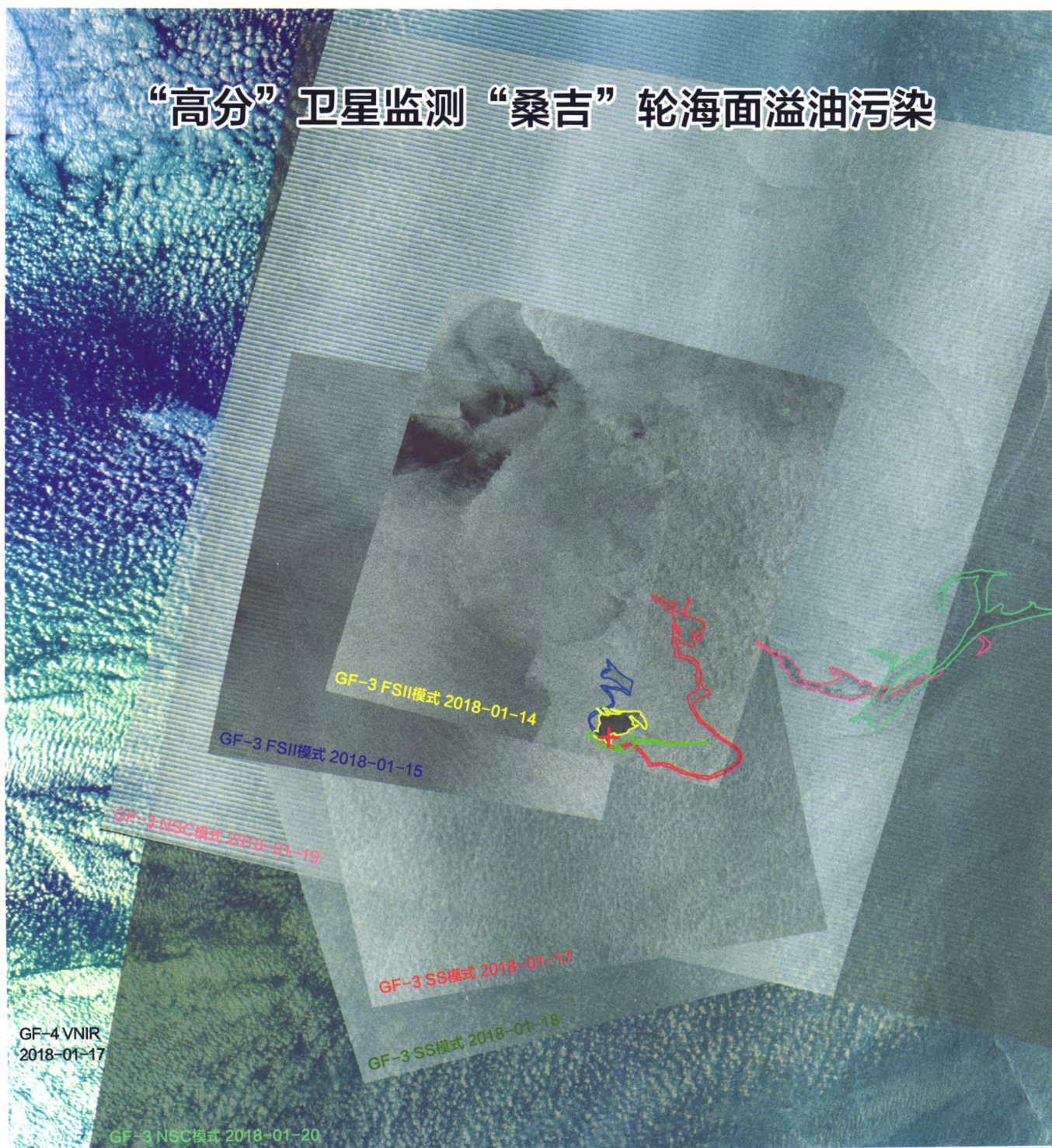
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“高分”卫星监测“桑吉”轮海面溢油污染





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Yaogan Xuebao

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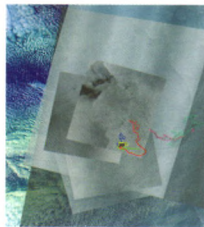
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封面说明

About the Cover

“高分”卫星监测“桑吉”轮海面溢油污染

GF satellite constellation to detect oil spills of sunken SANCHI crude oil tanker in the East China Sea

封面图片为 2018-01-15—2018-01-21 多时相高分 3 号 (GF-3) SAR 卫星探测到的“桑吉”轮碰撞燃爆事故海面溢油污染物及其扩散过程。其中包括精细条带 2 (FSII、10 m 分辨率、100 km 幅宽)、标准条带 (SS、25 m 分辨率、130 km 幅宽) 以及窄幅扫描 (NSC、50 m 分辨率、300 km 幅宽) 等 3 种成像模式图像。底图采用 2018 年 1 月 17 日高分 4 号 (GF-4) 卫星获得的多光谱彩色合成图, 分辨率 50 m 分辨率, 成像模式为 PMI 模式。GF-3 卫星为中国首颗最高分辨率达 1 m 的 C 波段多极化 SAR 卫星, 具备 12 种成像模式, 是国际上成像模式最多的 SAR 卫星。SAR 卫星具有全天候、全天时的遥感探测能力, 在此次东海海域油轮碰撞事故溢油污染应急监测中发挥了重要作用。GF-4 卫星为中国首颗地球同步轨道高分辨率对地观测卫星, 采用面阵凝视成像工作模式, 具备可见光、多光谱、红外波段成像能力, 与低轨遥感卫星配合使用, 优势互补, 相得益彰。The upper cover images show oil spills detected by GF-3 Synthetic Aperture Radar (SAR) time-serious images (acquired from Jan. 15 to Jan. 21, 2018), including FSII mode (10 m, swath 100 km), SS mode (25 m, swath 130 km), and NSC mode (50 m, swath 300 km). The lower cover image is a color composite map (50 m, PMI mode) by GF-4 satellite, at Jan. 17, 2018. GF-3 is the first C band SAR satellite of China, with multi-polarization and up to 1 m spatial resolution. In addition, GF-3 is a SAR satellite who has the most imaging mode (12 operational modes) around the world. GF-3 SAR images perform unforgettably in the accident of oil tankers collision in the East China Sea, due to SAR is able to acquire image in all-whether, day and night. GF-4, on the other hand, is the first satellite of China in geostationary earth orbit, which constitute GF satellite constellation along with GF-1, GF-2, GF-3 and etc. GF-4, working in staring mode, is capable of imaging ranging from visible light to infrared waveband, and is adapt to be used with polar orbit satellites.

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