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Chung-Ru Ho and Antony K. Liu Preface: Remote Sensing Applications Nota di contenuto

in Ocean Observation -- Tianxia Jia, Yonglin Zhang and Rencai Dong A Universal Fuzzy Logic Optical Water Type Scheme for the Global Oceans -- Emna Amri, Pierre Dardouillet, Alexandre Benoit, Hermann Courteille, Philippe Bolon, Dominique Dubucq and Anthony Credoz Offshore Oil Slick Detection: From Photo-Interpreter to Explainable Multi-Modal Deep Learning Models Using SAR Images and Contextual Data -- Xiaomeng Geng, Lei Shi, Jie Yang, Pingxiang Li, Lingli Zhao, Weidong Sun and Jingi Zhao Ship Detection and Feature Visualization Analysis Based on Lightweight CNN in VH and VV Polarization Images -- Tonghan Fei, Binghu Huang, Xiang Wang, Junxing Zhu, Yan Chen, Huizan Wang and Weimin Zhang A Hybrid Deep Learning Model for the Bias Correction of SST Numerical Forecast Products Using Satellite Data -- Lin Dong, Jifeng Qi, Baoshu Yin, Hai Zhi, Delei Li, Shuguo Yang, et al. Reconstruction of Subsurface Salinity Structure in the South China Sea Using Satellite Observations: A LightGBM-Based Deep Forest Method --L'ea Schamberger, Audrey Minghelli, Malik Chami and Fran cois Steinmetz Improvement of Atmospheric Correction of Satellite Sentinel-3/OLCI Data for Oceanic Waters in Presence of Sargassum -- Mingjun He, Shuangyan He, Xiaodong Zhang, Feng Zhou and Peiliang Li AssessmentofNormalizedWater-

LeavingRadianceDerivedfromGOCIUsingAERONET-OC Data -- Shiming Lu, Mingjun He, Shuangyan He, Shuo He, Yunhe Pan, Wenbin Yin and Peiliang Li An Improved Cloud Masking Method for GOCI Data over

Turbid Coastal Waters -- Hongwei Zhang, Yuanshuai Zhang, Ziwang Li, Bingyi Liu, Bin Yin and Songhua Wu Small Angle Scattering Intensity Measurement by an Improved Ocean Scheimpug Lidar System -- Junyi Li, Huiyuan Zheng, Lingling Xie, Quanan Zheng, Zheng Ling and Min Li Response of Total Suspended Sediment and Chlorophyll-a Concentration to Late Autumn Typhoon Events in The Northwestern South China Sea -- Khalid A. Hussein, Khameis Al Abdouli, Dawit T. Ghebreyesus, Pakorn Petchprayoon, Naeema Al Hosani and Hatim O. Sharif Spatiotemporal Variability of Chlorophyll-a and Sea Surface Temperature, and Their Relationship with Bathymetry over the Coasts of UAE -- Shaochun Xu, Shuai Xu, Yi Zhou, Shidong Yue, Xiaomei Zhang, Ruiting Gu, et al. Long-Term Changes in the Unique and Largest Seagrass Meadows in the Bohai Sea (China) Using Satellite (1974-2019) and Sonar Data: Implication for Conservation and Restoration --Hiroshi Kuroda and Takashi Setou Extensive Marine Heatwaves at the Sea Surface in the Northwestern Pacic Ocean in Summer 2021 --Zhihua Zhang, Difeng Wang, Yinhe Cheng and Fang Gong Long-Term Changes and Factors That Inuence Changes in Thermal Discharge from Nuclear Power Plants in Daya Bay, China -- Mengtian Qiao, Anzhou Cao, Jinbao Song, Yunhe Pan and Hailun He Enhanced Turbulent Mixing in the Upper Ocean Induced by Super Typhoon Goni (2015) -- Zhen Li, Anton Verhoef and Ad Stoffelen Bayesian Sea Ice Detection Algorithm for CFOSAT -- Wenxiang Ding, Caiyun Zhang, Jianyu Hu and Shaoping Shang Unusual Fish Assemblages Associated with Environmental Changes in the East China Sea in February and March 2017 -- Heping Liu, Wei Yang, Hao Wei, Chengfei Jiang, Changgen Liu and Liang Zhao On Characteristics and Mixing Effects of Internal Solitary Waves in the Northern Yellow Sea as Revealed by Satellite and In Situ Observations -- Xiaoyu Zhao, Zhenhua Xu, Ming Feng, Qun Li, Peiwen Zhang, Jia You, et al. Satellite Investigation of Semidiurnal Internal Tides in the Sulu-Sulawesi Seas -- Weidong Wang, Robin Robertson, Yang Wang, Chen Zhao, Zhanjiu Hao, Baoshu Yin and Zhenhua Xu Distinct Variability between Semi diurnal and Diurnal Internal Tides at the East China Sea Shelf -- Thomas Meunier, Paula P'erez-Brunius and Amy Bower Reconstructing the Three-Dimensional Structure of Loop Current Rings from Satellite Altimetry and In Situ Data Using the Gravest Empirical Modes Method -- Zhanjiu Hao, Zhenhua Xu, Ming Feng, Qun Li and Baoshu Yin Spatiotemporal Variability of Mesoscale Eddies in the Indonesian Seas -- Shipeng Ying, Hongsong Qu, Shuping Tao, Liangliang Zheng and Xiaobin Wu Radiation Sensitivity Analysis of Ocean Wake Information Detection System Based on Visible Light Remote Sensing -- Zhi Huang, Jianyu Hu and Weian Shi Mapping the Coastal Upwelling East of Taiwan Using Geostationary Satellite Data -- Yuhui Li, Yun Qiu, Jianyu Hu, Cherry Aung, Xinyu Lin and Yue Dong Springtime Upwelling and Its Formation Mechanism in Coastal Waters of Manaung Island, Myanmar -- Senyang Xie, Zhi Huang and Xiao Hua Wang Remotely Sensed Seasonal Shore ward Intrusion of the East Australian Current: Implications for Coastal Ocean Dynamics -- Chun-Hoe Chow, Yi-Chen Lin, Wee Cheah and Jen-Hua Tai Injection of High Chlorophyll-a Waters by a Branch of Kuroshio Current into the Nutrient-Poor North Pacic Subtropical Gyre -- Zhenyu Sun, Jianyu Hu, Zhaozhang Chen, Jia Zhu, Longgi Yang, Xirong Chen and Xuewen Wu A Strong Kuroshio Intrusion into the South China Sea and Its Accompanying Cold-Core Anticyclonic Eddy in Winter 2020-2021 --Ching-Yuan Lu, Po-Chun Hsu, Quanan Zheng and Chung-Ru Ho Variations in Flow Patterns in the Northern Taiwan Strait Observed by Satellite-Tracked Drifters -- Rodrigo N. Vasconcelos, Andr' e T. Cunha Lima, Carlos A. D. Lentini, Garcia V. Miranda, Lu's F. Mendon, ca,

Sommario/riassunto

Marcus A. Silva, et al. Oil Spill Detection and Mapping: A 50-Year Bibliometric Analysis.

Since the launch of Seasat, TIROS-N, and Nimbus-7 satellites equipped with ocean observation sensors in 1978, a new era of ocean remote sensing has opened. Today, remotely sensed data have been widely used in oceanographic studies. This reprint collects various advanced ocean remote sensing technologies and their applications, including the use of artificial intelligence techniques to explore ocean information and bibliometric analysis to assess researchers and trends in this scientific field. The observations of various sensors enrich the application of ocean environment monitoring and ocean dynamical analysis. If you are interested in understanding the application of ocean remote sensing, this monograph should be very helpful.