



Haiyang Xuebao
(1979年5月创刊)

ISSN 0253-4193
CN 11-2055/P

海洋学报

第45卷第2期
Vol.45 No.2

中文
版 2023
02

海洋学报 Haiyang Xuebao

第四十五卷 第二期

2023年2月



中国海洋学会主办
《海洋学报》编辑部出版

海洋学报

Haiyang Xuebao

第 45 卷 第 2 期 2023 年 2 月

Scopus 数据库收录期刊

中国科学引文数据库来源期刊

北大中文核心期刊

中国科技论文统计源期刊

美国《化学文摘》收录期刊

《日本科技文献速报》收录期刊

目次

论文

物理海洋、海洋气象、海洋物理

基于多层感知器的风涌浪分离方法	徐啸, 陶爱峰, 韩雪, 潘锡山, 杨伊妮	1
基于 WW3 的南海北部有效波高时空变化及其极值重现期估算方法分析	夏瑞彬, 路超越, 梁楚进, 王志勇	13
人类活动对珠江伶仃洋余环流结构的影响研究: 以洪季小潮为例	梅金亚, 陈永平, 储南洋, 苏敏, 刘培, 姚鹏	27
冰-水侧向融化过程的实验室试验研究	贾磊, 姜令强, 卢鹏, 解飞, 祖永恒, 王庆凯, 李志军	42
基于走航观测数据的 ERA5 南海北部夏季短波辐射收支评估	章振, 张功, 刘长炜, 吴仁豪, 齐木荣, 邓汉虞, 陈剑桥, 韩博	51

海洋地质

珠三拗陷西北部浅海陆架砂体时空演化及成因机制	宋广增, 李明, 张帅, 严德天, 刘恩涛, 陈思	62
气候变化和人类活动影响下黄河远端泥北支粒度组分变化及其区域沉积效应	杨光, 任春宇, 石勇, 徐笑梅, 高建华	74
九龙江口潮滩表层沉积物有机质的分布、来源及沉积环境指示意义	潘大东, 张良荟, 林永崇	85
图解法和矩值法粒度参数的定性对比: 以琼州海峡岸滩表层沉积物为例	李高聪, 梁荣鑫, 全长亮, 王华强, 夏琼, 李志强, 唐杰平	98

海洋技术

寒潮天气下高风险冰块追踪预测方法及数值模拟	张娜, 徐圣凯, 许宁, 王立涛, 王安良	110
-----------------------------	-----------------------	-----

海洋信息科学

基于 D-P 算法和最优路径的海山地理实体边界划定方法	崔丙浩, 吴自银, 赵荻能, 阳凡林, 刘志豪, 姚宜斌, 孙中苗	118
温盐深变化对波束脚印坐标的影响规律分析	孙涛, 何林帮	130

研究报道

物理海洋、海洋气象、海洋物理

基于大规模围填海和陆源排污压力下的广西钦州湾环境容量变化及损失评估	吕赫, 张少峰, 宋德海, 鲍献文	139
---	-------------------	-----

Haiyang Xuebao

Vol. 45 No. 2 February 2023

CONTENTS

Article

Physical Oceanography, Marine Meteorology and Marine Physics

- Separation method of wind-wave and swell based on the multilayer perceptron *Xu Xiao, Tao Aifeng, Han Xue, Pan Xishan, Yang Yini* 12
- Analysis of the spatio-temporal variations of significant wave height in the northern South China Sea and the return period estimation methods of its extreme based on WW3 *Xia Ruibin, Lu Chaoyue, Liang Chujin, Wang Zhiyong* 26
- Human effects on the residual circulations in the Lingding Bay, Zhujiang River Estuary: a case study of neap tides during flood season *Mei Jinya, Chen Yongping, Chu Nanyang, Su Min, Liu Pei, Yao Peng* 41
- Laboratory experimental study on the lateral melting process of ice layer *Jia Lei, Jiang Lingqiang, Lu Peng, Xie Fei, Zu Yongheng, Wang Qingkai, Li Zhijun* 50
- Estimation of ERA5 shortwave radiation budget in the northern South China Sea in summer based on navigation observation data *Zhang Zhen, Zhang Gong, Liu Changwei, Wu Renhao, Qi Murong, Deng Hanyu, Chen Jianqiao, Han Bo* 61

Marine Geology

- Temporal and spatial evolution and genetic mechanism of shallow continental shelf sandbodies in the northwestern Zhushan Depression *Song Guangzeng, Li Ming, Zhang Shuai, Yan Detian, Liu Entao, Chen Si* 73
- Variations in grain size composition and regional sedimentary effects in the north branch of Huanghe River distal mud induced by climate changes and human activities *Yang Guang, Ren Chunyu, Shi Yong, Xu Xiaomei, Gao Jianhua* 83
- Temporal spatial distribution and source of organic matter in tidal flat surficial sediments and their implications for sedimentary environment identification in the Jiulong River Estuary *Pan Dadong, Zhang Lianghui, Lin Yongchong* 97
- Qualitative comparative analysis on grain-size parameters of derived from graphic and moment methods: a case study of the surficial sediment of coastal beaches of Qiongzhou Strait *Li Gaocong, Liang Rongxin, Tong Changliang, Wang Huaqiang, Xia Qiong, Li Zhiqiang, Tang Jieping* 108

Marine Technology

- Tracking and forecasting method and numerical simulation of high-risk ice in cold wave weather *Zhang Na, Xu Shengkai, Xu Ning, Wang Litao, Wang Anliang* 117

Marine Information Science

- A method of seafloor geographic entity boundary recognition based on D-P algorithm and optimal path *Cui Binghao, Wu Ziyin, Zhao Dineng, Yang Fanlin, Liu Zhihao, Yao Yibin, Sun Zhongmiao* 129
- Analysis of the influence of temperature, salinity and depth variations on beam footprint coordinates *Sun Tao, He Linbang* 138

Research Note

Physical Oceanography, Marine Meteorology and Marine Physics

- Environmental capacity change and loss assessment of Qinzhou Bay in Guangxi induced by large-scale reclamation and land-based sewage discharge *Lyu He, Zhang Shaofeng, Song Dehai, Bao Xianwen* 149