



Haiyang Xuebao
(1979年5月创刊)

ISSN 0253-4193
CN 11-2055/P

海洋学报

第45卷第3期
Vol.45 No.3
中文
版 2023
03

海洋学报 Haiyang Xuebao

第四十五卷 第三期

二〇二三年三月



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 3 期 2023 年 3 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

环境引导气流两类型年际模态与西北太平洋热带气旋活动的联系	1
..... 杨昕玮, 邵宇行, 赵海坤, 韩翔, 周育锋, 姜明波	

海洋化学

北部湾东北部春、夏季表层海水 CO ₂ 分压的 24 h 变化及其调控机制研究	14
..... 许欣, 王翔, 胡慧娜, 向荣, 蔡钰灿, 刘长建, 张伟杰, 陈际雨, 马玉	

海洋生物

渔获量时间序列长度对基于 CMSY 方法的资源评估结果的影响	27
..... 李琪, 刘淑德, 王琨, 张崇良	
自然死亡和亲体补充关系对黄鳍金枪鱼资源评估的影响	40
..... 崔明远, 麻秋云, 田思泉, 林龙山, 李渊	
基于 DNA 条形码技术的珠江口春季鱼卵和仔稚鱼种类组成和分布特征的研究	52
..... 孔啸兰, 张帅, 陈作志, 林昭进, 蒋佩文, 江艳娥	
渤海西南部小型水母群落特征与环境因子相关性研究	66
... 刘欣禹, 徐子钧, 张洪亮, 李保磊, 温国义, 李笑语, 沙婧婧, 杜小媛, 鲍萌萌, 孙卓男, 丁凯, 齐衍萍, 温若冰, 曹婧	
基于环境 DNA 技术的西沙礁区长棘海星种群丰度研究	76
..... 闫智聪, 邢家杰, 蔡文启, 张开典, 吴钟解, 李元超, 唐佳, 周智	
福建三沙湾海域细菌群落结构及其形成机制	84
..... 王飞鹏, 杨靖煜, 蔡尊栋, 陈锦源, 田森, 王路, 李荣茂, 刘炜, 穆景利	

海洋信息科学

HY1C/1D 海表温度对 Terra/Aqua 产品的可替代性分析	97
..... 毛志华, 张贤良, 刘建强, 丁静, 陈鹏, 朱乾坤, 黄海清, 马力	
粤港澳大湾区红树林时空分布演变及现存林龄遥感分析	113
..... 张信, 陈建裕, 杨清杰	
基于 CU-Net 模型的红树林自动识别方法研究——以广东省珠海市淇澳岛为例	125
..... 蔚铭阁, 芮小平, 邹亚荣, 张茜	
基于高空间分辨率遥感影像的水深反演有效性评估	136
..... 王燕茹, 张利勇, 刘文, 张凯, 王鑫	
高分辨率海水表层二氧化碳分压重构——以大西洋为例	147
..... 王馨仪, 吴楚仪, 吴森森, 陈奕君, 杜震洪	

Haiyang Xuebao

Vol. 45 No. 3 March 2023

CONTENTS

Article

Physical Oceanography, Marine Meteorology and Marine Physics

- Two leading modes of environmental steering flow in the interannual time scale and their associations with tropical cyclone activity over the western North Pacific *Yang Xinwei, Shao Yuhang, Zhao Haikun, Han Xiang, Zhou Yufeng, Jiang Mingbo* 13

Marine Chemistry

- Hourly variations of partial pressure of CO₂ in surface sea water and its controlling mechanisms in the northeastern Beibu Gulf in spring and summer *Xu Xin, Wang Xiang, Hu Huina, Xiang Rong, Cai Yucan, Liu Changjian, Zhang Weijie, Chen Jiyu, Ma Yu* 25

Marine Biology

- Effects of lengths of catch time series on stock assessment using CMSY method *Li Qi, Liu Shude, Wang Kun, Zhang Chongliang* 39

- Influence of natural mortality and stock-recruitment relationship on yellowfin tuna (*Thunnus albacares*) stock assessment *Cui Mingyuan, Ma Qiuyun, Tian Siqian, Lin Longshan, Li Yuan* 50

- Species composition and distribution characteristic of fish eggs and larvae based on DNA barcoding technology of the Zhujiang River Estuary in spring *Kong Xiaolan, Zhang Shuai, Chen Zuozhi, Lin Zhaojin, Jiang Peiwen, Jiang Yan'e* 64

- Characteristics of small medusae community correlated with environmental factors in the southwest of Bohai Sea *Liu Xinyu, Xu Zijun, Zhang Hongliang, Li Baolei, Wen Guoyi, Li Xiaoyu, Sha Jingjing, Du Xiaoyuan, Bao Mengmeng, Sun Zhuonan, Ding Kai, Qi Yanping, Wen Ruobing, Cao Jing* 75

- Study on the population distribution of *Acanthaster planci* in the reef area of the Xisha Islands based on environmental DNA technology *Yan Zhicong, Xing Jiajie, Cai Wenqi, Zhang Kaidian, Wu Zhongjie, Li Yuanchao, Tang Jia, Zhou Zhi* 83

- Bacterial community structure and assembly mechanisms in Sansha Bay, Fujian *Wang Feipeng, Yang Jingyu, Cai Zundong, Chen Jinyuan, Tian Miao, Wang Lu, Li Rongmao, Liu Wei, Mu Jingli* 96

Marine Information Science

- Consistent analysis of sea surface temperature products between HY1C/1D and Terra/Aqua *Mao Zhihua, Zhang Xianliang, Liu Jianqiang, Ding Jing, Chen Peng, Zhu Qiankun, Huang Haiqing, Ma Li* 112

- Analysis of spatial-temporal distribution evolution and age of existing mangrove forests in Guangdong-Hong Kong-Macao Greater Bay Area using remotely sensed data *Zhang Xin, Chen Jianyu, Yang Qingjie* 124

- Research on automatic identification method of mangrove based on CU-Net model: Taking the Qi'ao Island in Zhuhai City, Guangdong Province as an example *Yu Mingge, Rui Xiaoping, Zou Yarong, Zhang Xi* 135

- Evaluation of validity of bathymetry retrieval data based on high-spatial resolution remote sensing image *Wang Yanru, Zhang Liyong, Liu Wen, Zhang Kai, Wang Xin* 146

- Reconstruction of sea surface pCO₂ with high resolution: A case study of the Atlantic Ocean *Wang Xinyi, Wu Chuyi, Wu Sensen, Chen Yijun, Du Zhenhong* 158