

目 次

·研究论文·

耦合陆面水文模型和机器学习方法的水库径流量预报及应用

..... 陈剑飞, 李 勇, 刘俊江, 钟利华, 史彩霞, 袁 星, 钟华昌(1)

基于两种机器学习方法的广西后汛期降水预测模型 .....

覃卫坚, 何莉阳, 蔡悦幸(8)

长沙冬季降水过程的微波辐射计反演参量特征分析 .....

黄 煌, 李 琼, 唐 林, 黄宇霆, 徐冬英(14)

2014—2020年梧州市短时大暴雨雷达回波特征分析 .....

欧坚莲, 汤中明, 黄恩恩, 蒋玉凤(20)

基于MOS的广西北部湾沿海秋冬极大风速精细化预报

..... 潘 静, 陈峥蓉, 黄燕波, 于 潇, 张雪波, 何 滨(26)

不同气象预测数据源对山地风电场风速预测准确率的影响分析 .....

吴文倩(31)

基于PDSI指数的近40年广东干旱特征分析 .....

陆杰英, 孙丽颖, 王春林, 翟志宏, 吴健达(36)

基于卫星遥感数据的南海海域真光层POC输出效率分布特征

..... 刘少军, 蔡大鑫, 赵 婷, 韩 静, 佟金鹤, 李光伟(41)

基于FY2G卫星的宁夏空中云水资源特征研究 .....

常倬林, 党张利, 孙艳桥, 林 彤(47)

基于条件价值法的风云卫星数据和服务社会效益评估研究 .....

李 雪, 咸 迪(53)

2019—2020年上海地区空气质量变化特征及气象影响因素分析 .....

陈 镭, 马井会, 瞿元昊, 常炉予(59)

·新技术应用·

广西对流尺度数值预报模式产品在南宁的应用初探 .....

苏兆达, 潘杰丽, 梁岱云, 黄增俊, 韦覃武(66)

基于“天擎”DPL的业务融入设计与应用初探 .....

黄 志, 黄 珩, 梁维亮, 梁苑苑(73)

广西对流尺度数值预报数据传输系统的设计与实现 .....

马 军, 刘 浆, 李 莹(78)

·技术总结·

2021年广西气候概况 .....

秦 川, 何洁琳, 李艳兰, 陆 甲, 李妍君, 黄雪松, 廖胜石, 周美丽(84)

2020年12月一次北部湾海雾过程的生消特征分析 .....

伍丽泉, 郑凤琴, 覃 皓, 郭晓薇(90)

黄海冬季雾与夏季雾个例的对比研究 .....

王绪翔, 刘锦超, 李 杨(96)

广西天等县“5·28”极端特大暴雨中尺度成因初探 .....

李华实, 马 智, 黄秋丰, 陆小晓, 农明哲(101)

一次罕见超级单体风暴的X波段双偏振雷达特征分析

..... 王清川, 彭 敏, 周 涛, 东高红, 黄浩杰, 王鹤婷(107)

·短论·

降水类天气现象自动与人工观测质量对比分析 .....

周坤论, 黄剑钊, 陶 伟, 李艳萍, 李 强(112)

国内气象观测研究现状的文献计量学分析 .....

姜 明, 史 静, 杨妍辰, 党 岳(118)

巍山县人居气候适宜度分析 .....

张丽芬, 张如伟(124)

# Journal of Meteorological Research and Application

Vol.43 No.1 Mar. 2022

## Contents

- Reservoir runoff forecast and application coupled with land surface hydrological model and machine learning method  
..... Chen Jianfei, Li Yong, Liu Junjiang, Zhong Lihua, Shi Caixia, Yuan Xing, Zhong Huachang(1)
- Prediction model of post-flood season precipitation in Guangxi based on two machine learning methods  
..... Qin Weijian, He Liyang, Cai Yuexing(8)
- Characteristic analysis of microwave radiometer inversion parameters of winter precipitation process in Changsha  
..... Huang Huang, Li Qiong, Tang Lin, Huang Yuting, Xu Dong ying(14)
- Analysis of radar echo characteristics of short-term rainstorm in Wuzhou City from 2014 to 2020  
..... Ou Jianlian, Tang Zhongming, Huang Enen, Jiang Yufeng(20)
- Refined prediction of maximum wind speed in autumn and winter along the coast of Guangxi Beibu Gulf based on MOS  
..... Pan Jing, Chen Zhengrong, Huang Yanbo, Yu Xiao, Zhang Xuebo, He Bin(26)
- Analysis on the influence of different meteorological forecast data sources on the accuracy of wind speed prediction  
in mountain wind farms ..... Wu Wenqian(31)
- Analysis of drought characteristics in Guangdong in recent 40 years based on PDSI index  
..... Lu Jieying, Sun Liying, Wang Chunlin, Zhai Zhihong, Wu Jianda(36)
- Distribution characteristics of euphotic layer POC export efficiency in the South China Sea based on remote sensing data  
..... Liu Shaojun, Cai Daxin, Zhao Ting, Han Jing, Tong Jinhe, Li Guangwei(41)
- Study on characteristics of air cloud water resources in Ningxia Based on FY2G satellite  
..... Chang Zhuolin, Dang Zhangli, Sun Yanqiao, Lin Tong(47)
- Research on social benefit evaluation of Fengyun satellite data and service based on conditional value method  
..... Li Xue, Xian Di(53)
- Analysis of air quality change characteristics and meteorological influencing factors in Shanghai from 2019 to 2020  
..... Chen Lei, Ma Jinghui, Qu Yuanhao, Chang Luyu(59)
- Application of Guangxi convective scale numerical prediction model products in Nanning  
..... Su Zhaoda, Pan Jieli, Liang Daiyun, Huang Zengjun, Wei Qinwu(66)
- Design and application of business integration based on CMADaaS DPL  
..... Huang Zhi, Huang Heng, Liang Weiliang, Liang Yuanyuan(73)
- Design and implementation of data transmission system for convective scale numerical prediction in Guangxi  
..... Ma Jun, Liu Jiang, Li Ying(78)
- Overview of Guangxi climate in 2021  
..... Qin Chuan, He Jieli, Li Yanlan, Lu Jia, Li Yanjun, Huang Xuesong, Liao Shengshi, Zhou Meili(84)
- Analysis of generation and dissipation characteristics of a sea fog process in Beibu Gulf in December 2020  
..... Wu Liquan, Zheng Fengqin, Qin Hao, Guo Xiaowei(90)
- A comparative study of winter and summer fog cases in the Yellow Sea ..... Wang Xuxiang, Liu Jinchao, Li Yang(96)
- Preliminary study on the mesoscale cause of an extreme rainstorm in Tiandeng County, Guangxi on May 28  
..... Li Huashi, Ma Zhi, Huang Qiufeng, Lu Xiaoxiao, Nong Mingzhe(101)
- Characteristic analysis of X-band dual polarization radar for a rare supercell storm  
..... Wang Qingchuan, Peng Min, Zhou Tao, Dong Gaohong, Huang Haojie, Wang Heting(107)
- Quality analysis of automatic and manual observation data of precipitation weather phenomenon instrument  
..... Zhou Kunlun, Huang Jianzhao, Tao wei, Li Yanping, Li qiang(112)
- Bibliometric analysis of the research status of meteorological observation in China  
..... Jiang Ming, Shi Jing, Yang Yanchen, Dang Yue(118)
- Analysis on climate suitability of human settlements in Weishan County ..... Zhang Lifan, Zhang Ruwei(124)