

# 气象

2021年 4月

第47卷 第4期

(总第556期)

## 目 次

### 论文

- 雨滴谱仪资料在“温比亚”台风降水估测中的应用探究 .....  
..... 冯婉悦 施丽娟 王智敏 黄 晓 杨莲梅 张 林 (389)
- 天津城区一次  $\gamma$  中尺度短时暴雨的热动力环境分析 .....  
..... 王 莹 董 畅 易笑园 王艳春 张文龙 徐 梅 (398)
- 河西走廊西部干旱区一次极端暴雨天气的水汽特征分析 ..... 孔祥伟 杨建才 李 红 傅 朝 (412)
- 云南中部一次出现多个超级单体雹暴的强对流过程环境场和雷达回波特征 .....  
..... 尹丽云 梅 寒 张腾飞 孙 玲 金文杰 成佳丽 (424)
- 四川盆地不同强度短时强降水物理量特征对比分析 ..... 张武龙 康 岚 杨康权 银 航 (439)
- 云南省副热带高压外围类短时强降水的雷达回波特征 .....  
..... 何 钰 陈小华 李耀孙 尹丽云 李华宏 (450)
- 位温方程拉格朗日平流计算方案的改进及其在 GRAPES\_GFS 全球模式的应用 .....  
..... 张红亮 沈学顺 (463)

### 天气、气候评述

- 2020 年全球气候特征及重大天气气候事件 ..... 翟建青 代潭龙 王国复 (471)
- 2020 年中国气候主要特征及主要天气气候事件 ..... 代潭龙  
王秋玲 王国复 陈 峥 赵珊珊 翟建青 邹旭恺 姜允迪 石 帅 周 兵 崔 童  
孙 劲 蔡雯悦 朱晓金 钟海玲 郭艳君 支 蓉 刘芸芸 赵俊虎 柳艳菊 李 多 (478)
- 2020 年汛期气候预测效果评述及先兆信号分析 ..... 刘芸芸 王永光 龚振淞 娄德君 (488)
- 2020 年秋季我国气候异常特征及成因分析 ..... 杨明珠 陈丽娟 (499)
- 2021 年 1 月大气环流和天气分析 ..... 徐 冉 江 琦 桂海林 尤 媛 关 良 (510)

# METEOROLOGICAL MONTHLY

Vol. 47, No. 4 (Sum No. 556)

April, 2021

## Contents

### Articles

Application of Raindrop Disdrometer Data in Rainfall Estimation of Typhoon Rumbia .....	FENG Wanyue SHI Lijuan WANG Zhimin HUANG Xiao YANG Lianmei ZHANG Lin (389)
The Thermal and Dynamic Environmental Field Analysis of a Meso- $\gamma$ Scale Short-Time Rainstorm in Tianjin	WANG Ying DONG Chang YI Xiaoyuan WANG Yanchun ZHANG Wenlong XU Mei (398)
Analysis on Water Vapor Characteristics of an Extreme Rainstorm in the Arid Region of Western Hexi Corridor	KONG Xiangwei YANG Jiancai LI Hong FU Zhao (412)
Environmental Conditions and Radar Characteristics of a Severe Convective Hailstorm with Multiple Supercells in Central Yunnan Province .....	YIN Liyun MEI Han ZHANG Tengfei SUN Ling JIN Wenjie CHENG Jiali (424)
Comparative Analysis on Characteristics of Physical Quartity of Flash-Rain Under Different Intensities in Sichuan Basin .....	ZHANG Wulong KANG Lan YANG Kangquan YIN Hang (439)
Radar Echo Characteristics of Short-Time Severe Rainfall in the Periphery of Subtropical High in Yunnan Province	HE Yu CHEN Xiaohua LI Yaosun YIN Liyun LI Huahong (450)
Improvement of Lagrangian Advection Scheme in Potential Temperature Equation and Its Application in GRAPES_GFS Model .....	ZHANG Hongliang SHEN Xueshu (463)
Global Climate Features and Significant Weather and Climate Events in 2020 .....	ZHAI Jianqing DAI Tanlong WANG Guofu (471)
Climatic Characteristics and Major Meteorological Events over China in 2020 .....	DAI Tanlong WANG Qiuling WANG Guofu CHEN Yu ZHAO Shanshan ZHAI Jianqing ZOU Xukai JIANG Yundi SHI Shuai ZHOU Bing CUI Tong SUN Shao CAI Wenyue ZHU Xiaojin ZHONG Hailing GUO Yanjun ZHI Rong LIU Yunyun ZHAO Junhu LIU Yanju LI Duo (478)
Precursory Signals of the 2020 Summer Climate in China and Evaluation of Real-Time Prediction .....	LIU Yunyun WANG Yongguang GONG ZhenSong LOU Dejun (488)
Features and Possible Causes of Abnormal Climate over China in Autumn 2020 .....	YANG Mingzhu CHEN Lijuan (499)
Analysis of the January 2021 Atmospheric Circulation and Weather .....	XU Ran JIANG Qi GUI Hailin YOU Yuan GUAN Liang (510)

本期责任编辑 何晓欢